November 19, 2021

New Mexico Environment Department
Air Quality Bureau, Permits Section
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505
(505) 476-4300

RE: NSR Permit Application
Brininstool Compressor Station
Lea County, New Mexico
Targa Midstream Services, LLC

Dear Sir or Madam:

On behalf of Targa Midstream Services, LLC (Targa), Altamira-US, LLC is submitting the enclosed NSR Permit Application for the Brininstool Compressor Station (Facility), which is located approximately 23.6 miles southwest of Eunice in Lea County. Ten (10) Waukesha L7042GSI compressor engines and associated compressors, one (1) flare, and site-wide fugitives are currently authorized under General Construction Permit Oil & Gas (GCP-OG) No. 6317-M2. The Facility also has various tanks, produced water loading, and an emergency generator that are exempt.

Targa proposes adding two (2) Caterpillar G3606 compressor engines, one (1) additional Waukesha L7042GSI compressor engine, and associated compressors at the Facility. As a result, the Facility will no longer meet the requirements of the GCP-OG.

One complete copy of the application and one CD containing the electronic files (including air dispersion modeling files) are enclosed along with a check for $500. Therefore, Targa is requesting an NSR permit for the Facility.

If you have any questions or comments, please contact Sarah Dutcher of Targa at (713) 584-1423 or sdutcher@targaresources.com.

Sincerely,
Altamira-US, LLC

Laura Worthen-Lodes, PE
VP Mid-Continent Region

cc: Ms. Sarah Dutcher, Targa Midstream Services, LLC

NSR PERMIT APPLICATION
BRININSTOOL COMPRESSOR STATION
LEA COUNTY, NM

NOVEMBER 2021

Submitted to:
New Mexico Environment Department
Air Quality Bureau, Permits Section
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505

Prepared for:
Targa Midstream Services, LLC
Box 1909
Eunice, NM 88231
575-394-2534

Prepared by:
Altamira-US, LLC
2301 E. Lamar Blvd., Suite 200
Arlington, Texas 76006
817-617-2675

TABLE OF CONTENTS

SECTIONS

Mail Application To:		**For Department use only:**
New Mexico Environment Department Air Quality Bureau Permits Section 525 Camino de los Marquez, Suite 1 Santa Fe, New Mexico, 87505 Phone: (505) 476-4300 Fax: (505) 476-4375 www.env.nm.gov/aqb		AIRS No.:

Universal Air Quality Permit Application

Use this application for NOI, NSR, or Title V sources.

Use this application for: the initial application, modifications, technical revisions, and renewals. For technical revisions, complete Sections, 1-A, 1-B, 2-E, 3, 9 and any other sections that are relevant to the requested action; coordination with the Air Quality Bureau permit staff prior to submittal is encouraged to clarify submittal requirements and to determine if more or less than these sections of the application are needed. Use this application for streamline permits as well. See Section 1-I for submittal instructions for other permits.

This application is submitted as (check all that apply)**:** ☐ Request for a No Permit Required Determination (no fee)
☐ **Updating** an application currently under NMED review. Include this page and all pages that are being updated (no fee required).
Construction Status: ☐ Not Constructed ☒ Existing Permitted (or NOI) Facility ☐ Existing Non-permitted (or NOI) Facility
Minor Source: ☐ a NOI 20.2.73 NMAC ☒ 20.2.72 NMAC application or revision ☐ 20.2.72.300 NMAC Streamline application
Title V Source: ☐ Title V (new) ☐ Title V renewal ☐ TV minor mod. ☐ TV significant mod. TV Acid Rain: ☐ New ☐ Renewal
PSD Major Source: ☐ PSD major source (new) ☐ minor modification to a PSD source ☐ a PSD major modification

Acknowledgements:

☒ I acknowledge that a pre-application meeting is available to me upon request. ☐ Title V Operating, Title IV Acid Rain, and NPR applications have no fees.

☒ $500 NSR application Filing Fee enclosed OR ☐ The full permit fee associated with 10 fee points (required w/ streamline applications).

☒ Check No.: 3500505084 in the amount of $500

☒ I acknowledge the required submittal format for the hard copy application is printed double sided 'head-to-toe', 2-hole punched (except the Sect. 2 landscape tables is printed 'head-to-head'), numbered tab separators. Incl. a copy of the check on a separate page.

☒ I acknowledge there is an annual fee for permits in addition to the permit review fee: www.env.nm.gov/air-quality/permit-fees-2/.

☐ This facility qualifies for the small business fee reduction per 20.2.75.11.C. NMAC. The full $500.00 filing fee is included with this application and I understand the fee reduction will be calculated in the balance due invoice. The Small Business Certification Form has been previously submitted or is included with this application. (Small Business Environmental Assistance Program Information: www.env.nm.gov/air-quality/small-biz-eap-2/.)

Citation: Please provide the **low level citation** under which this application is being submitted: **20.2.72.200.A NMAC**
(e.g. application for a new minor source would be 20.2.72.200.A NMAC, one example for a Technical Permit Revision is 20.2.72.219.B.1.b NMAC, a Title V acid rain application would be: 20.2.70.200.C NMAC)

Section 1 – Facility Information

Section 1-A: Company Information

		AI # if known (see 1st 3 to 5 #s of permit IDEA ID No.): 35592	Updating Permit/NOI #: 6317
1	Facility Name: Brininstool Compressor Station	Plant primary SIC Code (4 digits): 1311	
		Plant NAIC code (6 digits): 211111	
a	Facility Street Address (If no facility street address, provide directions from a prominent landmark): From Eunice, head south on NM-207 S/Main St. Turn right onto Delaware Basin Rd. after 26.5 miles. After 1.7 miles the facility will be on the right.		
2	Plant Operator Company Name: Targa Midstream Services, LLC	Phone/Fax: (575) 394-2534 / (575) 394-2714	
a	Plant Operator Address: Box 1909, Eunice, NM 88231		

b	Plant Operator's New Mexico Corporate ID or Tax ID: 1948249	
3	Plant Owner(s) name(s): Targa Midstream Services, LLC	Phone/Fax: (575) 394-2534 / (575) 394-2714
a	Plant Owner(s) Mailing Address(s): Box 1909, Eunice, NM 88231	
4	Bill To (Company): Targa Midstream Services, LLC	Phone/Fax: (575) 394-2534 / (575) 394-2714
a	Mailing Address: Box 1909, Eunice, NM 88231	E-mail: rwoodell@targaresources.com
5	☒ Preparer: Rita Zebian ☒ Consultant: Altamira-US, LLC	Phone/Fax: 817-617-2675
a	Mailing Address: 2301 E Lamar Blvd., Suite 200, Arlington, TX 76006	E-mail: rita.zebian@altamira-us.com
6	Plant Operator Contact: Rebecca Woodell	Phone/Fax: (575) 394-2534 / (575) 394-2714
a	Address: Box 1909, Eunice, NM 88231	E-mail: rwoodell@targaresources.com
7	Air Permit Contact: Sarah Dutcher	Title: Sr. Environmental Specialist
a	E-mail: sdutcher@targaresources.com	Phone/Fax: (713) 584-1423
b	Mailing Address: 811 Louisiana Suite 2100, Houston, TX 77002	
c	The designated Air permit Contact will receive all official correspondence (i.e. letters, permits) from the Air Quality Bureau.	

Section 1-B: Current Facility Status

1.a	Has this facility already been constructed? ☒ Yes ☐ No	1.b If yes to question 1.a, is it currently operating in New Mexico? ☒ Yes ☐ No
2	If yes to question 1.a, was the existing facility subject to a Notice of Intent (NOI) (20.2.73 NMAC) before submittal of this application? ☐ Yes ☒ No	If yes to question 1.a, was the existing facility subject to a construction permit (20.2.72 NMAC) before submittal of this application? ☒ Yes ☐ No
3	Is the facility currently shut down? ☐ Yes ☒ No	If yes, give month and year of shut down (MM/YY):
4	Was this facility constructed before 8/31/1972 and continuously operated since 1972? ☐ Yes ☒ No	
5	If Yes to question 3, has this facility been modified (see 20.2.72.7.P NMAC) or the capacity increased since 8/31/1972? ☐Yes ☐No ☐N/A	
6	Does this facility have a Title V operating permit (20.2.70 NMAC)? ☐ Yes ☒No	If yes, the permit No. is: P-
7	Has this facility been issued a No Permit Required (NPR)? ☐ Yes ☒ No	If yes, the NPR No. is:
8	Has this facility been issued a Notice of Intent (NOI)? ☐ Yes ☒ No	If yes, the NOI No. is:
9	Does this facility have a construction permit (20.2.72/20.2.74 NMAC)? ☐ Yes ☒ No	If yes, the permit No. is:
10	Is this facility registered under a General permit (GCP-1, GCP-2, etc.)? ☒Yes ☐ No	If yes, the register No. is: GCP-OG 6317-M2

Section 1-C: Facility Input Capacity & Production Rate

1	What is the facility's maximum input capacity, specify units (reference here and list capacities in Section 20, if more room is required)			
a	Current	Hourly: 2.92 MMscf	Daily: 70 MMscf	Annually: 25,550 MMscf
b	Proposed	Hourly: 2.92 MMscf	Daily: 70 MMscf	Annually: 25,550 MMscf
2	What is the facility's maximum production rate, specify units (reference here and list capacities in Section 20, if more room is required)			
a	Current	Hourly: 2.92 MMscf	Daily: 70 MMscf	Annually: 25,550 MMscf
b	Proposed	Hourly: 2.92 MMscf	Daily: 70 MMscf	Annually: 25,550 MMscf

Section 1-D: Facility Location Information

1	Section: 14	Range: 33E	Township: 23S	County: Lea	Elevation (ft): 3,665
2	UTM Zone: ☐ 12 or ☒ 13			Datum: ☐ NAD 27 ☒ NAD 83 ☐ WGS 84	
a	UTM E (in meters, to nearest 10 meters): 637420			UTM N (in meters, to nearest 10 meters): 3574650	
b	**AND** Latitude (deg., min., sec.): 32° 18' 0.82"			Longitude (deg., min., sec.): 103° 32' 25.53"	
3	Name and zip code of nearest New Mexico town: Eunice, 88231				
4	Detailed Driving Instructions from nearest NM town (attach a road map if necessary): From Eunice, head south on NM-207 S/Main St. Turn right onto Delaware Basin Rd. after 26.5 miles. After 1.7 miles the facility will be on the right.				
5	The facility is 23.6 (distance) miles Southwest (direction) of Eunice (nearest town).				
6	Status of land at facility (check one): ☐ Private ☐ Indian/Pueblo ☐ Federal BLM ☐ Federal Forest Service ☒ Other (specify) State				
7	List all municipalities, Indian tribes, and counties within a ten (10) mile radius (20.2.72.203.B.2 NMAC) of the property on which the facility is proposed to be constructed or operated: Municipalities - None; Indian Tribes - None; Counties - Lea, Eddy				
8	**20.2.72** NMAC applications **only**: Will the property on which the facility is proposed to be constructed or operated be closer than 50 km (31 miles) to other states, Bernalillo County, or a Class I area (see www.env.nm.gov/aqb/modeling/class1areas.html)? ☒ Yes ☐ No (20.2.72.206.A.7 NMAC) If yes, list all with corresponding distances in kilometers: Texas, 33 km				
9	Name nearest Class I area: Carlsbad Caverns National Park				
10	Shortest distance (in km) from facility boundary to the boundary of the nearest Class I area (to the nearest 10 meters): 79.3 km				
11	Distance (meters) from the perimeter of the Area of Operations (AO is defined as the plant site inclusive of all disturbed lands, including mining overburden removal areas) to nearest residence, school or occupied structure: 5,090 m				
12	Method(s) used to delineate the Restricted Area: "**Restricted Area**" is an area to which public entry is effectively precluded. Effective barriers include continuous fencing, continuous walls, or other continuous barriers approved by the Department, such as rugged physical terrain with steep grade that would require special equipment to traverse. If a large property is completely enclosed by fencing, a restricted area within the property may be identified with signage only. Public roads cannot be part of a Restricted Area.				
13	Does the owner/operator intend to operate this source as a portable stationary source as defined in 20.2.72.7.X NMAC? ☐ Yes ☒ No A portable stationary source is not a mobile source, such as an automobile, but a source that can be installed permanently at one location or that can be re-installed at various locations, such as a hot mix asphalt plant that is moved to different job sites.				
14	Will this facility operate in conjunction with other air regulated parties on the same property? ☒ No ☐ Yes If yes, what is the name and permit number (if known) of the other facility?				

Section 1-E: Proposed Operating Schedule (The 1-E.1 & 1-E.2 operating schedules may become conditions in the permit.)

1	Facility **maximum** operating ($\frac{\text{hours}}{\text{day}}$): 24	($\frac{\text{days}}{\text{week}}$): 7	($\frac{\text{weeks}}{\text{year}}$): 52	($\frac{\text{hours}}{\text{year}}$): 8760			
2	Facility's maximum daily operating schedule (if less than 24 $\frac{\text{hours}}{\text{day}}$)? Start:		☐AM ☐PM	End:	☐AM ☐PM		
3	Month and year of anticipated start of construction: February 2022						
4	Month and year of anticipated construction completion: April 2022						
5	Month and year of anticipated startup of new or modified facility: April 2022						
6	Will this facility operate at this site for more than one year? ☒ Yes ☐ No						

Section 1-F: Other Facility Information

1	Are there any current Notice of Violations (NOV), compliance orders, or any other compliance or enforcement issues related to this facility? ☐ Yes ☒ No If yes, specify:		
a	If yes, NOV date or description of issue:		NOV Tracking No:
b	Is this application in response to any issue listed in 1-F, 1 or 1a above? ☐ Yes ☐ No If Yes, provide the 1c & 1d info below:		
c	Document Title:	Date:	Requirement # (or page # and paragraph #):
d	Provide the required text to be inserted in this permit:		
2	Is air quality dispersion modeling or modeling waiver being submitted with this application? ☒ Yes ☐ No		
3	Does this facility require an "Air Toxics" permit under 20.2.72.400 NMAC & 20.2.72.502, Tables A and/or B? ☐ Yes ☒ No		
4	Will this facility be a source of federal Hazardous Air Pollutants (HAP)? ☒ Yes ☐ No		
a	If Yes, what type of source? ☐ **Major** (☐ ≥10 tpy of any single HAP **OR** ☐ ≥25 tpy of any combination of HAPS) **OR** ☒ **Minor** (☒ <10 tpy of any single HAP **AND** ☒ <25 tpy of any combination of HAPS)		
5	Is any unit exempt under 20.2.72.202.B.3 NMAC? ☐ Yes ☒ No		
a	If yes, include the name of company providing commercial electric power to the facility: Xcel Commercial power is purchased from a commercial utility company, which specifically does not include power generated on site for the sole purpose of the user.		

Section 1-G: Streamline Application

(This section applies to 20.2.72.300 NMAC Streamline applications only)

1	☐ I have filled out Section 18, "Addendum for Streamline Applications." ☒ N/A (This is not a Streamline application.)

Section 1-H: Current Title V Information - Required for all applications from TV Sources

(Title V-source required information for all applications submitted pursuant to 20.2.72 NMAC (Minor Construction Permits), or 20.2.74/20.2.79 NMAC (Major PSD/NNSR applications), and/or 20.2.70 NMAC (Title V))

1	Responsible Official (R.O.) (20.2.70.300.D.2 NMAC): Jimy Oxford		Phone: (940) 220-2493
a	R.O. Title: Senior Vice President Operations	R.O. e-mail: joxford@targaresources.com	
b	R. O. Address: 4401 North I-35 Suite 303, Denton, TX 76207		
2	Alternate Responsible Official (20.2.70.300.D.2 NMAC): N/A		Phone: N/A
a	A. R.O. Title: N/A	A. R.O. e-mail: N/A	
b	A. R. O. Address: N/A		
3	Company's Corporate or Partnership Relationship to any other Air Quality Permittee (List the names of any companies that have operating (20.2.70 NMAC) permits and with whom the applicant for this permit has a corporate or partnership relationship)		
4	Name of Parent Company ("Parent Company" means the primary name of the organization that owns the company to be permitted wholly or in part.): Targa Resources, Inc.		
a	Address of Parent Company: 811 Louisiana Street, Suite 2100, Houston, TX 77002		
5	Names of Subsidiary Companies ("Subsidiary Companies" means organizations, branches, divisions or subsidiaries, which are owned, wholly or in part, by the company to be permitted.): None		
6	Telephone numbers & names of the owners' agents and site contacts familiar with plant operations: (575) 631-7085 – Rebecca Woodell		

7	Affected Programs to include Other States, local air pollution control programs (i.e. Bernalillo) and Indian tribes: Will the property on which the facility is proposed to be constructed or operated be closer than 80 km (50 miles) from other states, local pollution control programs, and Indian tribes and pueblos (20.2.70.402.A.2 and 20.2.70.7.B)? If yes, state which ones and provide the distances in kilometers: 32.9 km from Texas; No Tribes or pueblos or local pollution control programs within 80 km.

Section 1-I – Submittal Requirements

Each 20.2.73 NMAC (**NOI**), a 20.2.70 NMAC (**Title V**), a 20.2.72 NMAC (**NSR** minor source), or 20.2.74 NMAC (**PSD**) application package shall consist of the following:

Hard Copy Submittal Requirements:

1) One hard copy **original signed and notarized application package** **printed double sided** **'head-to-toe'** **2-hole punched** as we bind the document on top, not on the side; except Section 2 (landscape tables), which should be head-to-head. Please use **numbered tab separators** in the hard copy submittal(s) as this facilitates the review process. For NOI submittals only, hard copies of UA1, Tables 2A, 2D & 2F, Section 3 and the signed Certification Page are required. Please include a copy of the check on a separate page.

2) If the application is for a minor NSR, PSD, NNSR, or Title V application, include one working hard **copy** for Department use. This copy should be printed in book form, 3-hole punched, and **must be double sided**. Note that this is in addition to the head-to-to 2-hole punched copy required in 1) above. Minor NSR Technical Permit revisions (20.2.72.219.B NMAC) only need to fill out Sections 1-A, 1-B, 3, and should fill out those portions of other Section(s) relevant to the technical permit revision. TV Minor Modifications need only fill out Sections 1-A, 1-B, 1-H, 3, and those portions of other Section(s) relevant to the minor modification. NMED may require additional portions of the application to be submitted, as needed.

3) The entire NOI or Permit application package, including the full modeling study, should be submitted electronically. Electronic files for applications for NOIs, any type of General Construction Permit (GCP), or technical revisions to NSRs must be submitted with compact disk (CD) or digital versatile disc (DVD). For these permit application submittals, **two** CD copies are required (in sleeves, not crystal cases, please), with additional CD copies as specified below. NOI applications require only a single CD submittal. Electronic files for other New Source Review (construction) permits/permit modifications or Title V permits/permit modifications can be submitted on CD/DVD or sent through AQB's secure file transfer service.

Electronic files sent by (check one):

☒ CD/DVD attached to paper application

☐ secure electronic transfer. Air Permit Contact Name_____

Email_____

Phone number _____

a. If the file transfer service is chosen by the applicant, after receipt of the application, the Bureau will email the applicant with instructions for submitting the electronic files through a secure file transfer service. Submission of the electronic files through the file transfer service needs to be completed within 3 business days after the invitation is received, so the applicant should ensure that the files are ready when sending the hard copy of the application. The applicant will not need a password to complete the transfer. **Do not use the file transfer service for NOIs, any type of GCP, or technical revisions to NSR permits.**

4) Optionally, the applicant may submit the files with the application on compact disk (CD) or digital versatile disc (DVD) following the instructions above and the instructions in 5 for applications subject to PSD review.

5) If **air dispersion modeling** is required by the application type, include the **NMED Modeling Waiver** and/or electronic air dispersion modeling report, input, and output files. The dispersion modeling ***summary report only*** should be submitted as hard copy(ies) unless otherwise indicated by the Bureau.

6) If the applicant submits the electronic files on CD and the application is subject to PSD review under 20.2.74 NMAC (PSD) or NNSR under 20.2.79 NMC include,
   a. one additional CD copy for US EPA,
   b. one additional CD copy for each federal land manager affected (NPS, USFS, FWS, USDI) and,
   c. one additional CD copy for each affected regulatory agency other than the Air Quality Bureau.

   If the application is submitted electronically through the secure file transfer service, these extra CDs do not need to be submitted.

Electronic Submittal Requirements [in addition to the required hard copy(ies)]:

1) All required electronic documents shall be submitted as 2 separate CDs or submitted through the AQB secure file transfer service. Submit a single PDF document of the entire application as submitted and the individual documents comprising the application.

2) The documents should also be submitted in Microsoft Office compatible file format (Word, Excel, etc.) allowing us to access the text and formulas in the documents (copy & paste). Any documents that cannot be submitted in a Microsoft Office compatible

format shall be saved as a PDF file from within the electronic document that created the file. If you are unable to provide Microsoft office compatible electronic files or internally generated PDF files of files (items that were not created electronically: i.e. brochures, maps, graphics, etc,), submit these items in hard copy format. We must be able to review the formulas and inputs that calculated the emissions.

3) It is preferred that this application form be submitted as 4 electronic files (3 MSWord docs: Universal Application section 1 [UA1], Universal Application section 3-19 [UA3], and Universal Application 4, the modeling report [UA4]) and 1 Excel file of the tables (Universal Application section 2 [UA2]). Please include as many of the 3-19 Sections as practical in a single MS Word electronic document. Create separate electronic file(s) if a single file becomes too large or if portions must be saved in a file format other than MS Word.

4) The electronic file names shall be a maximum of 25 characters long (including spaces, if any). The format of the electronic Universal Application shall be in the format: "A-3423-FacilityName". The "A" distinguishes the file as an application submittal, as opposed to other documents the Department itself puts into the database. Thus, all electronic application submittals should begin with "A-". Modifications to existing facilities should use the core permit number (i.e. '3423') the Department assigned to the facility as the next 4 digits. Use 'XXXX' for new facility applications. The format of any separate electronic submittals (additional submittals such as non-Word attachments, re-submittals, application updates) and Section document shall be in the format: "A-3423-9-description", where "9" stands for the section # (in this case Section 9-Public Notice). Please refrain, as much as possible, from submitting any scanned documents as this file format is extremely large, which uses up too much storage capacity in our database. Please take the time to fill out the header information throughout all submittals as this will identify any loose pages, including the Application Date (date submitted) & Revision number (0 for original, 1, 2, etc.; which will help keep track of subsequent partial update(s) to the original submittal. Do not use special symbols (#, @, etc.) in file names. The footer information should not be modified by the applicant.

Table of Contents

Table 2-A: Regulated Emission Sources

Unit and stack numbering must correspond throughout the application package. If applying for a NOI under 20.2.73 NMAC, equipment exemptions under 2.72.202 NMAC do not apply.

Unit Number[1]	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity[3] (Specify Units)	Requested Permitted Capacity[3] (Specify Units)	Date of Manufacture[2] / Date of Construction/ Reconstruction[2]	Controlled by Unit # / Emissions vented to Stack #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB)[4]	Replacing Unit No.
C-01	Compressor Engine	Waukesha	L7042GSI	401148	1478 Hp	1478 Hp	6/1989 2016	C-01 C-01	20200253	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	4SRB	
RC-01	Reciprocating Compressor	Arial	JGK-4	F-8391	N/A	N/A	8/1992 2016	N/A N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	
C-02	Compressor Engine	Waukesha	L7042GSI	10812/5	1478 Hp	1478 Hp	3/1993 2016	C-02 C-02	20200253	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	4SRB	
RC-02	Reciprocating Compressor	Arial	JGK-4	F-9991	N/A	N/A	10/1994 2016	N/A N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	
C-03	Compressor Engine	Waukesha	L7042GSI	402403	1478 Hp	1478 Hp	1/1991 2016	C-03 C-03	20200253	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	4SRB	
RC-03	Reciprocating Compressor	Arial	JGK-4	F-8973	N/A	N/A	9/1953 2016	N/A N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	
C-04	Compressor Engine	Waukesha	L7042GSI	365715	1478 Hp	1478 Hp	7/1993 2016	C-04 C-04	20200253	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	4SRB	
RC-04	Reciprocating Compressor	Arial	JGK-4	F-10054	N/A	N/A	3/1995 2016	N/A N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	
C-05	Compressor Engine	Waukesha	L7042GSI	401319	1478 Hp	1478 Hp	3/1990 2016	C-05 C-05	20200253	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	4SRB	
RC-05	Reciprocating Compressor	Arial	JGK-4	F-9957	N/A	N/A	7/1994 2016	N/A N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	
C-06	Compressor Engine	Waukesha	L7042GSI	308019	1478 Hp	1478 Hp	8/2011 2017/2018	C-06 C-06	20200253	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	4SRB	
RC-06	Reciprocating Compressor	Arial	JGK-4	F-36221	N/A	N/A	7/2011 2017/2018	N/A N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	
C-07	Compressor Engine	Waukesha	L7042GSI	5283704998	1478 Hp	1478 Hp	3/2016 2017/2018	C-07 C-07	20200253	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	4SRB	
RC-07	Reciprocating Compressor	Arial	JGK-4	F-53645	N/A	N/A	3/2017 2017/2018	N/A N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	
C-08	Compressor Engine	Waukesha	L7042GSI	329436	1478 Hp	1478 Hp	4/1979 2017/2018	C-08 C-08	20200253	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	4SRB	
RC-08	Reciprocating Compressor	IR	RDS-4	YRS-1837	N/A	N/A	1983 2017/2018	N/A N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	

Unit Number[1]	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity[3] (Specify Units)	Requested Permitted Capacity[3] (Specify Units)	Date of Manufacture[2] / Date of Construction/ Reconstruction[2]	Controlled by Unit # / Emissions vented to Stack #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB)[4]	Replacing Unit No.
C-09	Compressor Engine	Waukesha	L7042GSI	C-1202 5/5	1478 Hp	1478 Hp	4/1996 2020	C-09 C-09	20200253	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	4SRB	
RC-09	Reciprocating Compressor	Ariel	JGK-4	F110-69	N/A	N/A	4/1996 2020	N/A N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	
C-10	Compressor Engine	Waukesha	L7042GSI	C-143 20/1	1478 Hp	1478 Hp	9/2002 2020	C-10 C-10	20200253	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	4SRB	
RC-10	Reciprocating Compressor	Ariel	JGK-4	F16287	N/A	N/A	5/2005 2020	N/A N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	
C-11	Compressor Engine	Caterpillar	G3606	TBD	TBD	TBD	Post 7/1/2010 TBD	C-11 C-11	20200254	☐ Existing (unchanged) ☐ To be Removed ☒ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	4SLB	
RC-11	Reciprocating Compressor	TBD	TBD	TBD	N/A	N/A	TBD TBD	N/A N/A	N/A	☐ Existing (unchanged) ☐ To be Removed ☒ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	
C-12	Compressor Engine	Caterpillar	G3606	TBD	TBD	TBD	Post 7/1/2010 TBD	C-12 C-12	20200254	☐ Existing (unchanged) ☐ To be Removed ☒ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	4SLB	
RC-12	Reciprocating Compressor	TBD	TBD	TBD	N/A	N/A	TBD TBD	N/A N/A	N/A	☐ Existing (unchanged) ☐ To be Removed ☒ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	
C-13	Compressor Engine	Waukesha	L7042GSI	TBD	TBD	TBD	Post 7/1/2010 TBD	C-13 C-13	20200253	☐ Existing (unchanged) ☐ To be Removed ☒ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	4SRB	
RC-13	Reciprocating Compressor	TBD	TBD	TBD	N/A	N/A	TBD TBD	N/A N/A	N/A	☐ Existing (unchanged) ☐ To be Removed ☒ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	
FUG	Facility-Wide Fugitive Emissions	N/A	N/A	N/A	N/A	N/A	2016 2016	N/A N/A	310888811	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	
F-01	Process Flare	Hero	F60UR6	H17063	20 MMscf/yr	20 MMscf/yr	2017 2017	N/A F-01	31000205	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	
Vent SSM	Venting Startup, Shutdown, and Maintenance	N/A	N/A	N/A	N/A	N/A	2016 2016	N/A N/A	31088811	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	
M	Malfunction	N/A	N/A	N/A	N/A	N/A	2016 2016	N/A N/A	31088811	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	

[1] Unit numbers must correspond to unit numbers in the previous permit unless a complete cross reference table of all units in both permits is provided.

[2] Specify dates required to determine regulatory applicability.

[3] To properly account for power conversion efficiencies, generator set rated capacity shall be reported as the rated capacity of the engine in horsepower, not the kilowatt capacity of the generator set.

[4] "4SLB" means four stroke lean burn engine, "4SRB" means four stroke rich burn engine, "2SLB" means two stroke lean burn engine, "CI" means compression ignition, and "SI" means spark ignition

Table 2-B: Insignificant Activities[1] (20.2.70 NMAC) OR Exempted Equipment (20.2.72 NMAC)

All 20.2.70 NMAC (Title V) applications must list all Insignificant Activities in this table. All 20.2.72 NMAC applications must list Exempted Equipment in this table. If equipment listed on this table is exempt under 20.2.72.202.B.5, include emissions calculations and emissions totals for 202.B.5 "similar functions" units, operations, and activities in Section 6, Calculations. Equipment and activities exempted under 20.2.72.202 NMAC may not necessarily be Insignificant under 20.2.70 NMAC (and vice versa). Unit & stack numbering must be consistent throughout the application package. Per Exemptions Policy 02-012.00 (see http://www.env.nm.gov/aqb/permit/aqb_pol.html), 20.2.72.202.B NMAC Exemptions do not apply, but 20.2.72.202.A NMAC exemptions do apply to NOI facilities under 20.2.73 NMAC. List 20.2.72.301.D.4 NMAC Auxiliary Equipment for Streamline applications in Table 2-A. The List of Insignificant Activities (for TV) can be found online at https://www.env.nm.gov/wp-content/uploads/sites/2/2017/10/InsignificantListTitleV.pdf. TV sources may elect to enter both TV Insignificant Activities and Part 72 Exemptions on this form.

Unit Number	Source Description	Manufacturer	Model No. / Serial No.	Max Capacity / Capacity Units	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5) / Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Manufacture /Reconstruction[2] / Date of Installation /Construction[2]	For Each Piece of Equipment, Check Onc
TK-1	Methanol Storage Tank	N/A	N/A	500	20.2.72.202.B.5 NMAC	2016	☒ Existing (unchanged) ☐ To be Removed
			N/A	gal		2016	☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
TK-4	Lube Oil Storage Tank	N/A	N/A	1500	20.2.72.202.B.2 NMAC	2016	☒ Existing (unchanged) ☐ To be Removed
			N/A	gal		2016	☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
TK-5	Antifreeze Storage Tank	N/A	N/A	4000	20.2.72.202.B.2 NMAC	2016	☒ Existing (unchanged) ☐ To be Removed
			N/A	gal		2016	☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
TK-6	Produced Water Tank	Permian Tank & Manufacturing CO	N/A	210	20.2.72.202.B.5 NMAC	2016	☒ Existing (unchanged) ☐ To be Removed
			F58322	bbl		2016	☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
TK-7	Water Storage Tank	N/A	N/A	62	20.2.72.202.B.5 NMAC	2016	☒ Existing (unchanged) ☐ To be Removed
			N/A	bbl		2016	☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
Load	Produced Water Loading	N/A	N/A	22,630	20.2.72.202.B.5 NMAC	2016	☒ Existing (unchanged) ☐ To be Removed
			N/A	bbl		2016	☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
Haul	Haul Road	N/A	N/A	N/A	20.2.72.202.B.5 NMAC	2016	☒ Existing (unchanged) ☐ To be Removed
			N/A	N/A		2016	☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
GEN	Emergency Generator	Generac	SG300	460	20.2.72.202.B.3 NMAC	20018	☒ Existing (unchanged) ☐ To be Removed
			3002583743	460		2018	☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed
							☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed
							☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed
							☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed
							☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed
							☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced

[1] Insignificant activities exempted due to size or production rate are defined in 20.2.70.300.D.6, 20.2.70.7.Q NMAC, and the NMED/AQB List of Insignificant Activities, dated September 15, 2008. Emissions from these insignificant activities do not need to be reported, unless specifically requested.

[2] Specify date(s) required to determine regulatory applicability.

Table 2-C: Emissions Control Equipment

Unit and stack numbering must correspond throughout the application package. Only list control equipment for TAPs if the TAP's maximum uncontrolled emissions rate is over its respective threshold as listed in 20.2.72 NMAC, Subpart V, Tables A and B. In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device regardless if the applicant takes credit for the reduction in emissions.

Control Equipment Unit No.	Control Equipment Description	Date Installed	Controlled Pollutant(s)	Controlling Emissions for Unit Number(s)[1]	Efficiency (% Control by Weight)	Method used to Estimate Efficiency
C-01	3-way catalyst	2016	NOx, CO, VOC, HCOH	C-01	96.2% NOx, 95% CO, 50% VOC, 84% HCOH	Manufacturer's Data
C-02	3-way catalyst	2016	NOx, CO, VOC, HCOH	C-02	96.2% NOx, 95% CO, 50% VOC, 84% HCOH	Manufacturer's Data
C-03	3-way catalyst	2016	NOx, CO, VOC, HCOH	C-03	96.2% NOx, 95% CO, 50% VOC, 84% HCOH	Manufacturer's Data
C-04	3-way catalyst	2016	NOx, CO, VOC, HCOH	C-04	96.2% NOx, 95% CO, 50% VOC, 84% HCOH	Manufacturer's Data
C-05	3-way catalyst	2016	NOx, CO, VOC, HCOH	C-05	96.2% NOx, 95% CO, 50% VOC, 84% HCOH	Manufacturer's Data
C-06	3-way catalyst	2017	NOx, CO, VOC, HCOH	C-06	96.2% NOx, 95% CO, 50% VOC, 84% HCOH	Manufacturer's Data
C-07	3-way catalyst	2017	NOx, CO, VOC, HCOH	C-07	96.2% NOx, 95% CO, 50% VOC, 84% HCOH	Manufacturer's Data
C-08	3-way catalyst	2017	NOx, CO, VOC, HCOH	C-08	96.2% NOx, 95% CO, 50% VOC, 84% HCOH	Manufacturer's Data
C-09	3-way catalyst	2020	NOx, CO, VOC, HCOH	C-09	96.2% NOx, 95% CO, 50% VOC, 84% HCOH	Manufacturer's Data
C-10	3-way catalyst	2020	NOx, CO, VOC, HCOH	C-10	96.2% NOx, 95% CO, 50% VOC, 84% HCOH	Manufacturer's Data
C-11	Oxidation Catalyst	TBD	CO, VOC, HCOH	C-11	88.6% CO, 13.8% VOC, 59.4% HCOH	Manufacturer's Data
C-12	Oxidation Catalyst	TBD	CO, VOC, HCOH	C-12	88.6% CO, 13.8% VOC, 59.4% HCOH	Manufacturer's Data

Control Equipment Unit No.	Control Equipment Description	Date Installed	Controlled Pollutant(s)	Controlling Emissions for Unit Number(s)[1]	Efficiency (% Control by Weight)	Method used to Estimate Efficiency
C-13	3-way catalyst	TBD	NOx, CO, VOC, HCOH	C-13	96.2% NOx, 95% CO, 50% VOC, 84% HCOH	Manufacturer's Data

[1] List each control device on a separate line. For each control device, list all emission units controlled by the control device.

Table 2-D: Maximum Emissions (under normal operating conditions)

☐ **This Table was intentionally left blank because it would be identical to Table 2-E.**

Maximum Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate the hourly emissions using the worst case hourly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. List Hazardous Air Pollutants (HAP) & Toxic Air Pollutants (TAPs) in Table 2-I. Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E-4).

Unit No.	NOx		CO		VOC		SOx		PM[1]		PM10[1]		PM2.5[1]		H_2S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
C-01	42.36	185.53	29.33	128.45	0.98	4.28	0.01	0.03	0.22	0.96	0.22	0.96	0.22	0.96	-	-		
C-02	42.36	185.53	29.33	128.45	0.98	4.28	0.01	0.03	0.22	0.96	0.22	0.96	0.22	0.96	-	-		
C-03	42.36	185.53	29.33	128.45	0.98	4.28	0.01	0.03	0.22	0.96	0.22	0.96	0.22	0.96	-	-		
C-04	42.36	185.53	29.33	128.45	0.98	4.28	0.01	0.03	0.22	0.96	0.22	0.96	0.22	0.96	-	-		
C-05	42.36	185.53	29.33	128.45	0.98	4.28	0.01	0.03	0.22	0.96	0.22	0.96	0.22	0.96	-	-		
C-06	42.36	185.53	29.33	128.45	0.98	4.28	0.01	0.03	0.22	0.96	0.22	0.96	0.22	0.96	-	-		
C-07	42.36	185.53	29.33	128.45	0.98	4.28	0.01	0.03	0.22	0.96	0.22	0.96	0.22	0.96	-	-		
C-08	42.36	185.53	29.33	128.45	0.98	4.28	0.01	0.03	0.22	0.96	0.22	0.96	0.22	0.96	-	-		
C-09	42.36	185.53	29.33	128.45	0.98	4.28	0.01	0.03	0.22	0.96	0.22	0.96	0.22	0.96	-	-		
C-10	42.36	185.53	29.33	128.45	0.98	4.28	0.01	0.03	0.22	0.96	0.22	0.96	0.22	0.96	-	-		
C-11	2.07	9.05	9.09	39.83	1.20	5.25	0.01	0.04	0.14	0.62	0.14	0.62	0.14	0.62	-	-		
C-12	2.07	9.05	9.09	39.83	1.20	5.25	0.01	0.04	0.14	0.62	0.14	0.62	0.14	0.62	-	-		
C-13	42.36	185.53	29.33	128.45	0.98	4.28	0.01	0.03	0.22	0.96	0.22	0.96	0.22	0.96	-	-		
FUG	-	-	-	-	5.46	23.91	-	-	-	-	-	-	-	-	0.024	0.10		
F-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Vent SSM	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	1		
M	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	1		
Totals	470.09	2058.99	340.77	1492.58	18.61	101.51	0.090	0.39	2.70	11.85	2.70	11.85	2.70	11.85	0.02	2.10		

[1]**Condensable Particulate Matter:** Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but PM is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC).

Table 2-E: Requested Allowable Emissions

Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E^{-4}).

Unit No.	NOx		CO		VOC		SOx		PM[1]		PM10[1]		PM2.5[1]		H_2S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
C-01	2.01	8.81	1.83	8.03	0.61	2.68	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-		
C-02	2.01	8.81	1.83	8.03	0.61	2.68	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-		
C-03	2.01	8.81	1.83	8.03	0.61	2.68	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-		
C-04	2.01	8.81	1.83	8.03	0.61	2.68	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-		
C-05	2.01	8.81	1.83	8.03	0.61	2.68	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-		
C-06	2.01	8.81	1.83	8.03	0.61	2.68	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-		
C-07	2.01	8.81	1.83	8.03	0.61	2.68	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-		
C-08	2.01	8.81	1.83	8.03	0.61	2.68	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-		
C-09	2.01	8.81	1.83	8.03	0.61	2.68	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-		
C-10	2.01	8.81	1.83	8.03	0.61	2.68	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-		
C-11	2.58	11.32	1.03	4.53	1.03	4.53	0.0083	0.036	0.14	0.62	0.14	0.62	0.14	0.62	-	-		
C-12	2.58	11.32	1.03	4.53	1.03	4.53	0.0083	0.036	0.14	0.62	0.14	0.62	0.14	0.62	-	-		
C-13	2.01	8.81	1.83	8.03	0.61	2.68	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-		
FUG	-	-	-	-	5.46	23.91	-	-	-	-	-	-	-	-	0.024	0.10		
F-01	0.68	0.83	3.11	3.80	2.73	3.27	1.73	2.07	-	-	-	-	-	-	0.019	0.022		
Vent SSM	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	1		
M	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	1		
Totals	27.98	120.41	25.33	101.16	16.97	85.67	1.82	2.47	2.70	11.85	2.70	11.85	2.70	11.85	0.04	2.13		

[1] **Condensable Particulate Matter:** Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but it is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC

Table 2-F: Additional Emissions during Startup, Shutdown, and Routine Maintenance (SSM)

☐ This table is intentionally left blank since all emissions at this facility due to routine or predictable startup, shutdown, or scehduled maintenance are no higher than those listed in Table 2-E and a malfunction emission limit is not already permitted or requested. If you are required to report GHG emissions as described in Section 6a, include any GHG emissions during Startup, Shutdown, and/or Scheduled Maintenance (SSM) in Table 2-P. Provide an explanations of SSM emissions in Section 6 and 6a.

All applications for facilities that have emissions during routine our predictable startup, shutdown or scheduled maintenance (SSM)[1], including NOI applications, must include in this table the Maximum Emissions during routine or predictable startup, shutdown and scheduled maintenance (20.2.7 NMAC, 20.2.72.203.A.3 NMAC, 20.2.73.200.D.2 NMAC). In Section 6 and 6a, provide emissions calculations for all SSM emissions reported in this table. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (https://www.env.nm.gov/aqb/permit/aqb_pol.html) for more detailed instructions. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E-4).

Unit No.	NOx		CO		VOC		SOx		PM[2]		PM10[2]		PM2.5[2]		H_2S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Vent SSM						10										1		
M						10										1		
Totals																		

[1] **For instance**, if the short term steady-state Table 2-E emissions are 5 lb/hr and the SSM rate is 12 lb/hr, enter 7 lb/hr in this table. If the annual steady-state Table 2-E emissions are 21.9 TPY, and the number of scheduled SSM events result in annual emissions of 31.9 TPY, enter 10.0 TPY in the table below.

[2] **Condensable Particulate Matter:** Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but it is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC).

Table 2-G: Stack Exit and Fugitive Emission Rates for Special Stacks

☒ I have elected to leave this table blank because this facility does not have any stacks/vents that split emissions from a single source or combine emissions from more than one source listed in table 2-A. Additionally, the emission rates of all stacks match the Requested allowable emission rates stated in Table 2-E.

Use this table to list stack emissions (requested allowable) from split and combined stacks. List Toxic Air Pollutants (TAPs) and Hazardous Air Pollutants (HAPs) in Table 2-I. List all fugitives that are associated with the normal, routine, and non-emergency operation of the facility. Unit and stack numbering must correspond throughout the application package. Refer to Table 2-E for instructions on use of the "-" symbol and on significant figures.

Stack No.	Serving Unit Number(s) from Table 2-A	NOx		CO		VOC		SOx		PM		PM10		PM2.5		□ H_2S or □ Lead	
		lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Totals:																	

Table 2-H: Stack Exit Conditions

Unit and stack numbering must correspond throughout the application package. Include the stack exit conditions for each unit that emits from a stack, including blowdown venting parameters and tank emissions. If the facility has multiple operating scenarios, complete a separate Table 2-H for each scenario and, for each, type scenario name here:

Stack Number	Serving Unit Number(s) from Table 2-A	Orientation (H-Horizontal V=Vertical)	Rain Caps (Yes or No)	Height Above Ground (ft)	Temp. (F)	Flow Rate		Moisture by Volume (%)	Velocity (ft/sec)	Inside Diameter (ft)
						(acfs)	(dscfs)			
C-01	C-01	Vertical	No	40	1126	164.8	-	-	209.9	1.0
C-02	C-02	Vertical	No	40	1126	164.8	-	-	209.9	1.0
C-03	C-03	Vertical	No	40	1126	164.8	-	-	209.9	1.0
C-04	C-04	Vertical	No	40	1126	164.8	-	-	209.9	1.0
C-05	C-05	Vertical	No	40	1126	164.8	-	-	209.9	1.0
C-06	C-06	Vertical	No	40	1126	164.8	-	-	209.9	1.0
C-07	C-07	Vertical	No	40	1126	164.8	-	-	209.9	1.0
C-08	C-08	Vertical	No	40	1126	164.8	-	-	209.9	1.0
C-09	C-09	Vertical	No	40	1126	164.8	-	-	209.9	1.0
C-10	C-10	Vertical	No	40	1126	164.8	-	-	209.9	1.0
C-11	C-11	Vertical	No	27.78	835	114.1	-	-	52.07	1.67
C-12	C-12	Vertical	No	27.78	835	114.1	-	-	52.07	1.67
C-13	C-13	Vertical	No	40	1126	164.8	-	-	209.9	1.0
F-01	F-01	Vertical	No	40	1832	-	-	-	65.6	1.3

Table 2-I: Stack Exit and Fugitive Emission Rates for HAPs and TAPs

In the table below, report the Potential to Emit for each HAP from each regulated emission unit listed in Table 2-A, only if the entire facility emits the HAP at a rate greater than or equal to one (1) ton per year For each such emission unit, HAPs shall be reported to the nearest 0.1 tpy. Each facility-wide Individual HAP total and the facility-wide Total HAPs shall be the sum of all HAP sources calculated to the nearest 0.1 ton per year. Per 20.2.72.403.A.1 NMAC, facilities not exempt [see 20.2.72.402.C NMAC] from TAP permitting shall report each TAP that has an uncontrolled emission rate in excess of its pounds per hour screening level specified in 20.2.72.502 NMAC. TAPs shall be reported using one more significant figure than the number of significant figures shown in the pound per hour threshold corresponding to the substance. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAAA and the TAP nomenclature as it listed in 20.2.72.502 NMAC. Include tank-flashing emissions estimates of HAPs in this table. For each HAP or TAP listed, fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected or the pollutant is emitted in a quantity less than the threshold amounts described above.

Stack No.	Unit No.(s)	Total HAPs		Formaldehydee □ HAP or □ TAP		Benzene □ HAP or □ TAP		Acetaldehyde □ HAP or □ TAP		Acrolein □ HAP or □ TAP		Provide Pollutant Name Here □ HAP or □ TAP		Provide Pollutant Name Here □ HAP or □ TAP		Provide Pollutant Name Here □ HAP or □ TAP		Provide Pollutant Name Here □ HAP or □ TAP	
		lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
C-01	C-01	0.1	0.5	-	0.1	-	0.1	-	0.1	-	0.1								
C-02	C-02	0.1	0.5	-	0.1	-	0.1	-	0.1	-	0.1								
C-03	C-03	0.1	0.5	-	0.1	-	0.1	-	0.1	-	0.1								
C-04	C-04	0.1	0.5	-	0.1	-	0.1	-	0.1	-	0.1								
C-05	C-05	0.1	0.5	-	0.1	-	0.1	-	0.1	-	0.1								
C-06	C-06	0.1	0.5	-	0.1	-	0.1	-	0.1	-	0.1								
C-07	C-07	0.1	0.5	-	0.1	-	0.1	-	0.1	-	0.1								
C-08	C-08	0.1	0.5	-	0.1	-	0.1	-	0.1	-	0.1								
C-09	C-09	0.1	0.5	-	0.1	-	0.1	-	0.1	-	0.1								
C-10	C-10	0.1	0.5	-	0.1	-	0.1	-	0.1	-	0.1								
C-11	C-11	0.5	2.4	0.3	1.5	-	-	0.1	0.5	0.1	0.3								
C-12	C-12	0.5	2.4	0.3	1.5	-	-	0.1	0.5	0.1	0.3								
C-13	C-13	0.1	0.5	-	0.1	-	0.1	-	0.1	-	0.1								
FUG	FUG	-	1.7	-	-	-	0.2	-	-	-	-								
F-01	F-01	0.1	0.1	-	-	-	-	-	-	-	-								
Vent SSM	Vent SSM	-	1	-	-	-	-	-	-	-	-								
M	M	-	1	-	-	-	-	-	-	-	-								
Totals:		2.2	14.1	0.6	4.1	-	1.3	0.2	2.1	0.2	1.7								

Table 2-J: Fuel

Specify fuel characteristics and usage. Unit and stack numbering must correspond throughout the application package.

Unit No.	Fuel Type (low sulfur Diesel, ultra low sulfur diesel, Natural Gas, Coal, …)	Fuel Source: purchased commercial, pipeline quality natural gas, residue gas, raw/field natural gas, process gas (e.g. SRU tail gas) or other	Specify Units				
			Lower Heating Value	Hourly Usage	Annual Usage	% Sulfur	% Ash
C-01	Field Gas	Raw/Field Natural Gas	1000 Btu/scf	0.011 MMscf/hr	99.37 MMscf/yr	0.32%	-
C-02	Field Gas	Raw/Field Natural Gas	1000 Btu/scf	0.011 MMscf/hr	99.37 MMscf/yr	0.32%	-
C-03	Field Gas	Raw/Field Natural Gas	1000 Btu/scf	0.011 MMscf/hr	99.37 MMscf/yr	0.32%	-
C-04	Field Gas	Raw/Field Natural Gas	1000 Btu/scf	0.011 MMscf/hr	99.37 MMscf/yr	0.32%	-
C-05	Field Gas	Raw/Field Natural Gas	1000 Btu/scf	0.011 MMscf/hr	99.37 MMscf/yr	0.32%	-
C-06	Field Gas	Raw/Field Natural Gas	1000 Btu/scf	0.011 MMscf/hr	99.37 MMscf/yr	0.32%	-
C-07	Field Gas	Raw/Field Natural Gas	1000 Btu/scf	0.011 MMscf/hr	99.37 MMscf/yr	0.32%	-
C-08	Field Gas	Raw/Field Natural Gas	1000 Btu/scf	0.011 MMscf/hr	99.37 MMscf/yr	0.32%	-
C-09	Field Gas	Raw/Field Natural Gas	1000 Btu/scf	0.011 MMscf/hr	99.37 MMscf/yr	0.32%	-
C-10	Field Gas	Raw/Field Natural Gas	1000 Btu/scf	0.011 MMscf/hr	99.37 MMscf/yr	0.32%	-
C-11	Field Gas	Raw/Field Natural Gas	1000 Btu/scf	0.014 MMscf/hr	124.1 MMscf/yr	0.32%	-
C-12	Field Gas	Raw/Field Natural Gas	1000 Btu/scf	0.014 MMscf/hr	124.1 MMscf/yr	0.32%	-
C-13	Field Gas	Raw/Field Natural Gas	1000 Btu/scf	0.011 MMscf/hr	99.37 MMscf/yr	0.32%	-
F-01	Field Gas	Raw/Field Natural Gas	1000 Btu/scf	0.0023 MMscf/hr	20 MMscf/yr	N/A	-

Table 2-K: Liquid Data for Tanks Listed in Table 2-L

For each tank, list the liquid(s) to be stored in each tank. If it is expected that a tank may store a variety of hydrocarbon liquids, enter "mixed hydrocarbons" in the Composition column for that tank and enter the corresponding data of the most volatile liquid to be stored in the tank. If tank is to be used for storage of different materials, list all the materials in the "All Calculations" attachment, run the newest version of TANKS on each, and use the material with the highest emission rate to determine maximum uncontrolled and requested allowable emissions rate. The permit will specify the most volatile category of liquids that may be stored in each tank. Include appropriate tank-flashing modeling input data. Use additional sheets if necessary. Unit and stack numbering must correspond throughout the application package.

Tank No.	SCC Code	Material Name	Composition	Liquid Density (lb/gal)	Vapor Molecular Weight (lb/lb*mol)	Average Storage Conditions		Max Storage Conditions	
						Temperature (°F)	True Vapor Pressure (psia)	Temperature (°F)	True Vapor Pressure (psia)
All tanks are exempt units.									

Table 2-L: Tank Data

Include appropriate tank-flashing modeling input data. Use an addendum to this table for unlisted data categories. Unit and stack numbering must correspond throughout the application package. Use additional sheets if necessary. See reference Table 2-L2. Note: 1.00 bbl = 10.159 M3 = 42.0 gal

Tank No.	Date Installed	Materials Stored	Seal Type (refer to Table 2-LR below)	Roof Type (refer to Table 2-LR below)	Capacity		Diameter (M)	Vapor Space (M)	Color (from Table VI-C)		Paint Condition (from Table VI-C)	Annual Throughput (gal/yr)	Turn-overs (per year)
					(bbl)	(M^3)			Roof	Shell			
All tanks are exempt units.													

Table 2-L2: Liquid Storage Tank Data Codes Reference Table

Roof Type	Seal Type, Welded Tank Seal Type		Seal Type, Riveted Tank Seal Type		Roof, Shell Color	Paint Condition
FX: Fixed Roof	**Mechanical Shoe Seal**	**Liquid-mounted resilient seal**	**Vapor-mounted resilient seal**	**Seal Type**	**WH**: White	Good
IF: Internal Floating Roof	**A**: Primary only	**A**: Primary only	**A**: Primary only	**A**: Mechanical shoe, primary only	**AS**: Aluminum (specular)	Poor
EF: External Floating Roof	**B**: Shoe-mounted secondary	**B**: Weather shield	**B**: Weather shield	**B**: Shoe-mounted secondary	**AD**: Aluminum (diffuse)	
P: Pressure	**C**: Rim-mounted secondary	**C**: Rim-mounted secondary	**C**: Rim-mounted secondary	**C**: Rim-mounted secondary	**LG**: Light Gray	
					MG: Medium Gray	
					BL: Black	
					OT: Other (specify)	

Note: 1.00 bbl = 0.159 M^3 = 42.0 gal

Table 2-M: Materials Processed and Produced (Use additional sheets as necessary.)

Material Processed				Material Produced			
Description	**Chemical Composition**	**Phase (Gas, Liquid, or Solid)**	**Quantity (specify units)**	**Description**	**Chemical Composition**	**Phase**	**Quantity (specify units)**
Natural Gas	Mixed Hydrocarbons	Gas	70 MMscf/day	Natural Gas	Mixed Hydrocarbons	Gas	70 MMscf/day

Table 2-N: CEM Equipment

Enter Continuous Emissions Measurement (CEM) Data in this table. If CEM data will be used as part of a federally enforceable permit condition, or used to satisfy the requirements of a state or federal regulation, include a copy of the CEM's manufacturer specification sheet in the Information Used to Determine Emissions attachment. Unit and stack numbering must correspond throughout the application package. Use additional sheets if necessary.

Stack No.	Pollutant(s)	Manufacturer	Model No.	Serial No.	Sample Frequency	Averaging Time	Range	Sensitivity	Accuracy
N/A - There is no CEM equipment located at this facility.									

Table 2-O: Parametric Emissions Measurement Equipment

Unit and stack numbering must correspond throughout the application package. Use additional sheets if necessary.

Unit No.	Parameter/Pollutant Measured	Location of Measurement	Unit of Measure	Acceptable Range	Frequency of Maintenance	Nature of Maintenance	Method of Recording	Averaging Time
N/A - There is no PEM equipment located at this facility.								

Table 2-P: Greenhouse Gas Emissions

Applications submitted under 20.2.70, 20.2.72, & 20.2.74 NMAC are required to complete this Table. Power plants, Title V major sources, and PSD major sources must report and calculate all GHG emissions for each unit. Applicants must report potential emission rates in short tons per year (see Section 6.a for assistance). Include GHG emissions during Startup, Shutdown, and Scheduled Maintenance in this table. For minor source facilities that are not power plants, are not Title V, or are not PSD, there are three options for reporting GHGs 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHG as a second separate unit; OR 3) check the following box ☐ By checking this box, the applicant acknowledges the total CO2e emissions are less than 75,000 tons per year.

		CO_2 ton/yr	N_2O ton/yr	CH_4 ton/yr	SF_6 ton/yr	PFC/HFC ton/yr[2]									Total GHG Mass Basis ton/yr[4]	Total CO_2e ton/yr[5]
Unit No.	**GWPs [1]**	**1**	**298**	**25**	**22,800**	**footnote 3**										
C-01	**mass GHG**	5812.03	0.011	0.11											5812.15	
	CO_2e	5812.03	3.26	2.74												5818.03
C-02	**mass GHG**	5812.03	0.011	0.11											5812.15	
	CO_2e	5812.03	3.26	2.74												5818.03
C-03	**mass GHG**	5812.03	0.011	0.11											5812.15	
	CO_2e	5812.03	3.26	2.74												5818.03
C-04	**mass GHG**	5812.03	0.011	0.11											5812.15	
	CO_2e	5812.03	3.26	2.74												5818.03
C-05	**mass GHG**	5812.03	0.011	0.11											5812.15	
	CO_2e	5812.03	3.26	2.74												5818.03
C-06	**mass GHG**	5812.03	0.011	0.11											5812.15	
	CO_2e	5812.03	3.26	2.74												5818.03
C-07	**mass GHG**	5812.03	0.011	0.11											5812.15	
	CO_2e	5812.03	3.26	2.74												5818.03
C-08	**mass GHG**	5812.03	0.011	0.11											5812.15	
	CO_2e	5812.03	3.26	2.74												5818.03
C-09	**mass GHG**	5812.03	0.011	0.11											5812.15	
	CO_2e	5812.03	3.26	2.74												5818.03
C-10	**mass GHG**	5812.03	0.011	0.11											5812.15	
	CO_2e	5812.03	3.26	2.74												5818.03
C-11	**mass GHG**	7258.86	0.014	0.14											7259.01	
	CO_2e	7258.86	4.17	3.50												7266.53
C-12	**mass GHG**	7258.86	0.014	0.14											7259.01	
	CO_2e	7258.86	4.17	3.50												7266.53
C-13	**mass GHG**	5812.03	0.011	0.11											5812.15	
	CO_2e	5812.03	3.26	2.74												5818.03
F-01	**mass GHG**	1542.84	0.0027	5.81											1548.65	
	CO_2e	1542.84	0.80	145.25												1688.89
FUG	**mass GHG**	2.78		23.41											26.19	
	CO2e	2.78		585.25												588.03
	mass GHG															
	CO_2e															
Total	**mass GHG**	79995.67	0.15	30.71											80026.53	
	CO_2e	79995.67	45.01	767.64												80808.32

[1] **GWP** (Global Warming Potential): Applicants must use the most current GWPs codified in Table A-1 of 40 CFR part 98. GWPs are subject to change, therefore, applicants need to check 40 CFR 98 to confirm GWP values.

[2] For **HFCs** or **PFCs** describe the specific HFC or PFC compound and use a separate column for each individual compound.

[3] For each new compound, enter the appropriate GWP for each HFC or PFC compound from Table A-1 in 40 CFR 98.

[4] Green house gas emissions on a **mass basis** is the ton per year green house gas emission before adjustment with its GWP.

[5] **CO_2e** means Carbon Dioxide Equivalent and is calculated by multiplying the TPY mass emissions of the green house gas by its GWP.

Section 3

Application Summary

The **Application Summary** shall include a brief description of the facility and its process, the type of permit application, the applicable regulation (i.e. 20.2.72.200.A.X, or 20.2.73 NMAC) under which the application is being submitted, and any air quality permit numbers associated with this site. If this facility is to be collocated with another facility, provide details of the other facility including permit number(s). In case of a revision or modification to a facility, provide the lowest level regulatory citation (i.e. 20.2.72.219.B.1.d NMAC) under which the revision or modification is being requested. Also describe the proposed changes from the original permit, how the proposed modification will affect the facility's operations and emissions, de-bottlenecking impacts, and changes to the facility's major/minor status (both PSD & Title V).

The **Process Summary** shall include a brief description of the facility and its processes.

Startup, Shutdown, and Maintenance (SSM) routine or predictable emissions: Provide an overview of how SSM emissions are accounted for in this application. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (http://www.env.nm.gov/aqb/permit/app_form.html) for more detailed instructions on SSM emissions.

Targa Midstream Services, LLC (Targa) owns and operates Brininstool Compressor Station (Facility), which is located approximately 23.6 miles southwest of Eunice in Lea County, New Mexico. Ten (10) Waukesha L7042GSI compressor engines and associated compressors, one (1) flare, and site-wide fugitives are currently authorized under General Construction Permit Oil & Gas (GCP-OG) No. 6317-M2. The Facility also has various tanks, produced water loading, and an emergency generator that are exempt.

Targa proposes adding two (2) Caterpillar G3606 compressor engines, one (1) additional Waukesha L7042GSI compressor engine and associated compressors at the Facility.

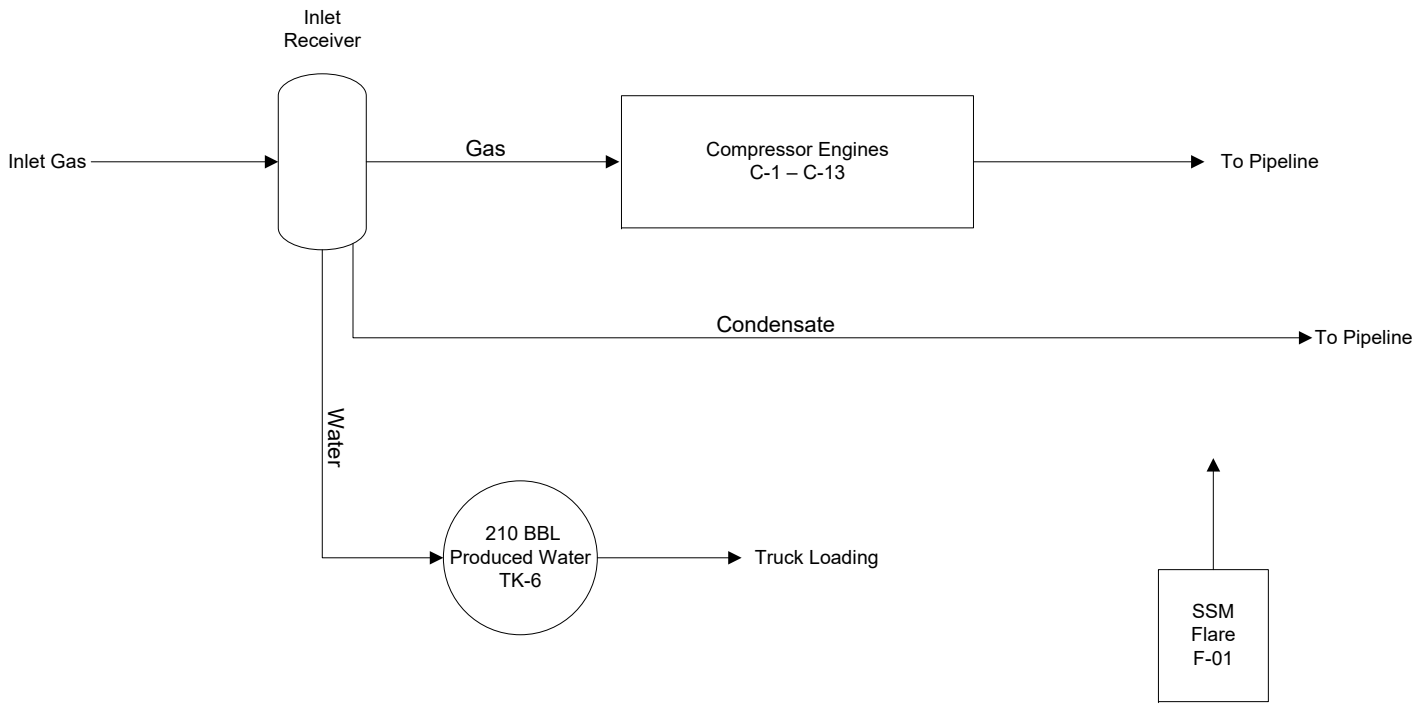
Targa is requesting 10 tpy VOC, 1 tpy H_2S and 1 tpy HAP SSM emissions. In addition, Targa is requesting 10 tpy VOC, 1 tpy H_2S and 1 tpy HAP malfunction emissions.

Section 4

Process Flow Sheet

A **process flow sheet** and/or block diagram indicating the individual equipment, all emission points and types of control applied to those points. The unit numbering system should be consistent throughout this application.

A Process flow sheet is included in this section.
.



ALTAMIRA

2301 E. LAMAR BLVD.
SUITE 200
ARLINGTON, TX 76006

www.altamira-us.com

FIGURE TITLE
PROCESS FLOW DIAGRAM

DOCUMENT TITLE
NSR PERMIT APPLICATION

CLIENT
TARGA MIDSTREAM SERVICES, LLC

LOCATION
BRININSTOOL COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

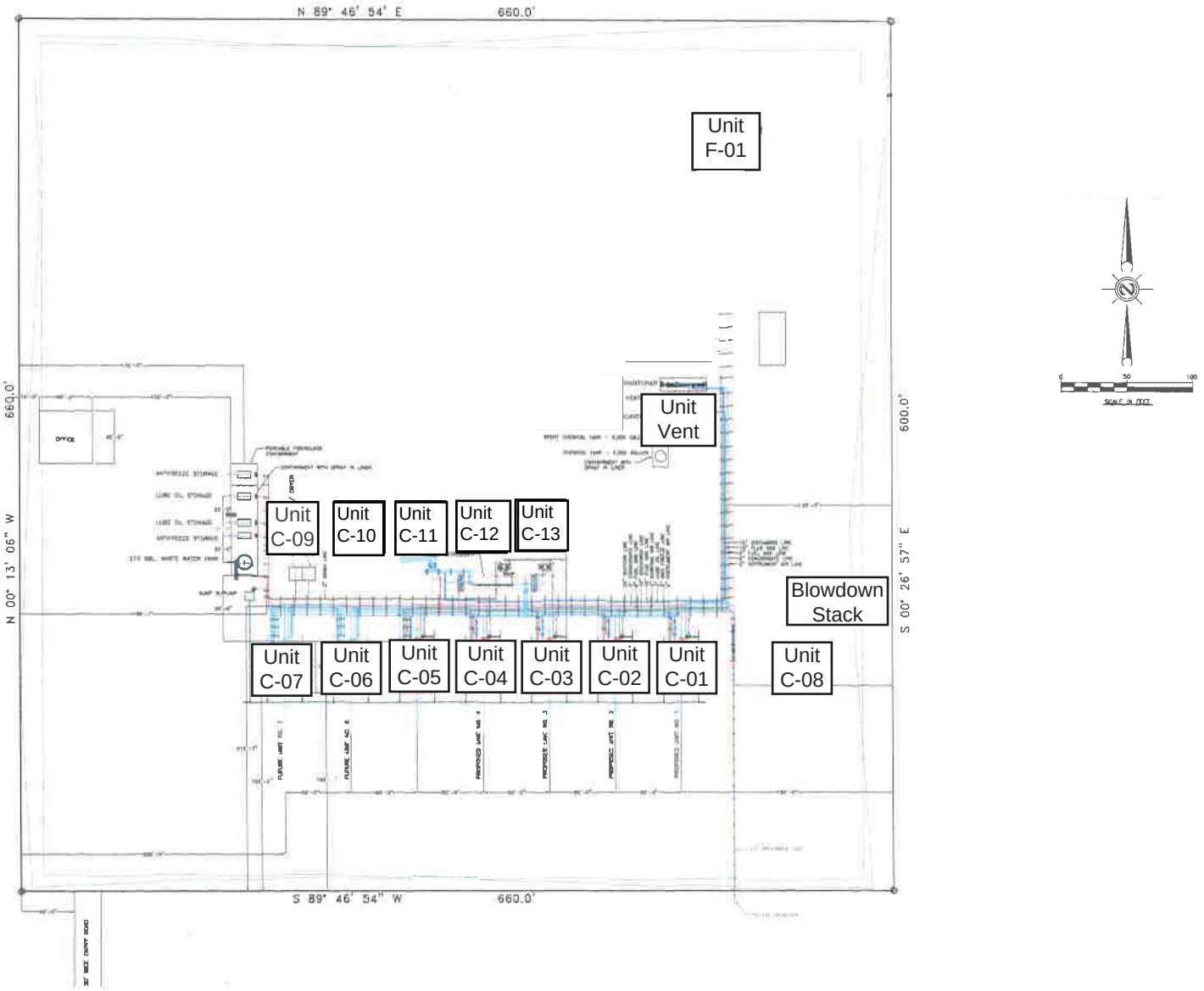
DATE	10/29/2021
SCALE	NOT TO SCALE
DESIGNED BY	AD
APPROVED BY	RZ
DRAWN BY	AD
PROJECT NUMBER	
Attachment	
SECTION 4	

Section 5

Plot Plan Drawn To Scale

A **plot plan drawn to scale** showing emissions points, roads, structures, tanks, and fences of property owned, leased, or under direct control of the applicant. This plot plan must clearly designate the restricted area as defined in UA1, Section 1-D.12. The unit numbering system should be consistent throughout this application.

A Plot Plan is included in this section.



REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	REVISION	DESCRIPTION

ENGINEERED PIPELINE SYSTEMS, INC.
P.O. BOX 14989
ODESSA, TEXAS 79768

TARGA RESOURCES
BRININSTOOL COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

SITE PIPING LAYOUT

DRAWN BY: PJB
CHECKED BY:
DATE: 7/29/15
DRAWING NO. 15-052-SPL

Section 6

All Calculations

Show all calculations used to determine both the hourly and annual controlled and uncontrolled emission rates. All calculations shall be performed keeping a minimum of three significant figures. Document the source of each emission factor used (if an emission rate is carried forward and not revised, then a statement to that effect is required). If identical units are being permitted and will be subject to the same operating conditions, submit calculations for only one unit and a note specifying what other units to which the calculations apply. All formulas and calculations used to calculate emissions must be submitted. The "Calculations" tab in the UA2 has been provided to allow calculations to be linked to the emissions tables. Add additional "Calc" tabs as needed. If the UA2 or other spread sheets are used, all calculation spread sheet(s) shall be submitted electronically in Microsoft Excel compatible format so that formulas and input values can be checked. Format all spread sheets and calculations such that the reviewer can follow the logic and verify the input values. Define all variables. If calculation spread sheets are not used, provide the original formulas with defined variables. Additionally, provide subsequent formulas showing the input values for each variable in the formula. All calculations, including those calculations are imbedded in the Calc tab of the UA2 portion of the application, the printed Calc tab(s), should be submitted under this section.

Tank Flashing Calculations: The information provided to the AQB shall include a discussion of the method used to estimate tank-flashing emissions, relative thresholds (i.e., NOI, permit, or major source (NSPS, PSD or Title V)), accuracy of the model, the input and output from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis. If Hysis is used, all relevant input parameters shall be reported, including separator pressure, gas throughput, and all other relevant parameters necessary for flashing calculation.

SSM Calculations: It is the applicant's responsibility to provide an estimate of SSM emissions or to provide justification for not doing so. In this Section, provide emissions calculations for Startup, Shutdown, and Routine Maintenance (SSM) emissions listed in the Section 2 SSM and/or Section 22 GHG Tables and the rational for why the others are reported as zero (or left blank in the SSM/GHG Tables). Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (http://www.env.nm.gov/aqb/permit/app_form.html) for more detailed instructions on calculating SSM emissions. If SSM emissions are greater than those reported in the Section 2, Requested Allowables Table, modeling may be required to ensure compliance with the standards whether the application is NSR or Title V. Refer to the Modeling Section of this application for more guidance on modeling requirements.

Glycol Dehydrator Calculations: The information provided to the AQB shall include the manufacturer's maximum design recirculation rate for the glycol pump. If GRI-Glycalc is used, the full input summary report shall be included as well as a copy of the gas analysis that was used.

Road Calculations: Calculate fugitive particulate emissions and enter haul road fugitives in Tables 2-A, 2-D and 2-E for:

1. If you transport raw material, process material and/or product into or out of or within the facility and have PER emissions greater than 0.5 tpy.
2. If you transport raw material, process material and/or product into or out of the facility more frequently than one round trip per day.

Significant Figures:
A. All emissions standards are deemed to have at least two significant figures, but not more than three significant figures.
B. At least 5 significant figures shall be retained in all intermediate calculations.
C. In calculating emissions to determine compliance with an emission standard, the following rounding off procedures shall be used:

(1) If the first digit to be discarded is less than the number 5, the last digit retained shall not be changed;
(2) If the first digit discarded is greater than the number 5, or if it is the number 5 followed by at least one digit other than the number zero, the last figure retained shall be increased by one unit; **and**
(3) If the first digit discarded is exactly the number 5, followed only by zeros, the last digit retained shall be rounded upward if it is an odd number, but no adjustment shall be made if it is an even number.
(4) The final result of the calculation shall be expressed in the units of the standard.

Control Devices: In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device

regardless if the applicant takes credit for the reduction in emissions. The applicant can indicate in this section of the application if they chose to not take credit for the reduction in emission rates. For notices of intent submitted under 20.2.73 NMAC, only uncontrolled emission rates can be considered to determine applicability unless the state or federal Acts require the control. This information is necessary to determine if federally enforceable conditions are necessary for the control device, and/or if the control device produces its own regulated pollutants or increases emission rates of other pollutants.

All calculations are included in this section.

TABLE 6-1

Targa Midstream Services LLC –
Brininstool Compressor Station

Emissions Summary

Facility Emissions

Uncontrolled Emissions

Unit No.	Description/Source	NOx pph	NOx tpy	CO pph	CO tpy	VOC pph	VOC tpy	SO_2 pph	SO_2 tpy	TSP pph	TSP tpy	PM-10 pph	PM-10 tpy	PM-2.5 pph	PM-2.5 tpy	H_2S pph	H_2S tpy
Unchanged Sources																	
C-01	Waukesha L7042GSI	42.36	185.53	29.33	128.45	0.98	4.28	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-
C-02	Waukesha L7042GSI	42.36	185.53	29.33	128.45	0.98	4.28	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-
C-03	Waukesha L7042GSI	42.36	185.53	29.33	128.45	0.98	4.28	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-
C-04	Waukesha L7042GSI	42.36	185.53	29.33	128.45	0.98	4.28	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-
C-05	Waukesha L7042GSI	42.36	185.53	29.33	128.45	0.98	4.28	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-
C-06	Waukesha L7042GSI	42.36	185.53	29.33	128.45	0.98	4.28	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-
C-07	Waukesha L7042GSI	42.36	185.53	29.33	128.45	0.98	4.28	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-
C-08	Waukesha L7042GSI	42.36	185.53	29.33	128.45	0.98	4.28	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-
C-09	Waukesha L7042GSI	42.36	185.53	29.33	128.45	0.98	4.28	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-
C-10	Waukesha L7042GSI	42.36	185.53	29.33	128.45	0.98	4.28	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-
FUG	Facility-wide Fugitive Emissions	-	-	-	-	5.46	23.91	-	-	-	-	-	-	-	-	0.024	0.10
F-01	Process Flare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vent	Venting SSM	-	-	-	-	-	10.00	-	-	-	-	-	-	-	-	-	1.00
SSM/M	Malfunction	-	-	-	-	-	10.00	-	-	-	-	-	-	-	-	-	1.00
Proposed Equipment																	
C-11	Caterpillar G3606	2.07	9.05	9.09	39.83	1.20	5.25	0.0083	0.036	0.14	0.62	0.14	0.62	0.14	0.62	-	-
C-12	Caterpillar G3606	2.07	9.05	9.09	39.83	1.20	5.25	0.0083	0.036	0.14	0.62	0.14	0.62	0.14	0.62	-	-
C-13	Waukesha L7042GSI	42.4	185.5	29.3	128.4	0.98	4.28	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-
	Total	**470.09**	**2058.99**	**340.77**	**1492.58**	**18.61**	**101.51**	**0.090**	**0.39**	**2.70**	**11.85**	**2.70**	**11.85**	**2.70**	**11.85**	**0.02**	**2.10**

Controlled Emissions

Unit No.	Description/Source	NOx pph	NOx tpy	CO pph	CO tpy	VOC pph	VOC tpy	SO_2 pph	SO_2 tpy	TSP pph	TSP tpy	PM-10 pph	PM-10 tpy	PM-2.5 pph	PM-2.5 tpy	H_2S pph	H_2S tpy
Unchanged Sources																	
C-01	Waukesha L7042GSI	2.01	8.81	1.83	8.03	0.61	2.68	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-
C-02	Waukesha L7042GSI	2.01	8.81	1.83	8.03	0.61	2.68	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-
C-03	Waukesha L7042GSI	2.01	8.81	1.83	8.03	0.61	2.68	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-
C-04	Waukesha L7042GSI	2.01	8.81	1.83	8.03	0.61	2.68	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-
C-05	Waukesha L7042GSI	2.01	8.81	1.83	8.03	0.61	2.68	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-
C-06	Waukesha L7042GSI	2.01	8.81	1.83	8.03	0.61	2.68	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-
C-07	Waukesha L7042GSI	2.01	8.81	1.83	8.03	0.61	2.68	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-
C-08	Waukesha L7042GSI	2.01	8.81	1.83	8.03	0.61	2.68	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-
C-09	Waukesha L7042GSI	2.01	8.81	1.83	8.03	0.61	2.68	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-
C-10	Waukesha L7042GSI	2.01	8.81	1.83	8.03	0.61	2.68	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-
FUG	Facility-wide Fugitive Emissions	-	-	-	-	5.46	23.91	-	-	-	-	-	-	-	-	0.024	0.10
F-01	Process Flare	0.68	0.83	3.11	3.80	2.73	3.27	1.73	2.07	-	-	-	-	-	-	0.019	0.022
Vent	Venting SSM	-	-	-	-	-	10.00	-	-	-	-	-	-	-	-	-	1.00
SSM/M	Startup, Shutdown, Maintenance, and Malfunction	-	-	-	-	-	10.00	-	-	-	-	-	-	-	-	-	1.00
Proposed Equipment																	
C-11	Caterpillar G3606	2.58	11.32	1.03	4.53	1.03	4.53	0.0083	0.036	0.14	0.62	0.14	0.62	0.14	0.62	-	-
C-12	Caterpillar G3606	2.58	11.32	1.03	4.53	1.03	4.53	0.0083	0.036	0.14	0.62	0.14	0.62	0.14	0.62	-	-
C-13	Waukesha L7042GSI	2.01	8.81	1.83	8.03	0.61	2.68	0.0067	0.029	0.22	0.96	0.22	0.96	0.22	0.96	-	-
	Total	**27.98**	**120.41**	**25.33**	**101.16**	**16.97**	**85.67**	**1.82**	**2.47**	**2.70**	**11.85**	**2.70**	**11.85**	**2.70**	**11.85**	**0.04**	**2.13**

"-" Indicates emissions of this pollutant are not expected
"*" Indicates hourly emissions are not appropriate for this unit

Targa Midstream Services LLC –
Brininstool Compressor Station

Emissions Summary

Facility Emissions

Uncontrolled Emissions

Unit No.	Description/Source	Total HAP pph	Total HAP tpy	Formaldehyde pph	Formaldehyde tpy	Benzene pph	Benzene tpy	Toluene pph	Toluene tpy	Acetaldehyde pph	Acetaldehyde tpy	Acrolein pph	Acrolein tpy	CO_2 tpy	CH_4 tpy	N_2O tpy	CO_2e tpy
Unchanged Sources																	
C-01	Waukesha L7042GSI	0.25	1.10	0.16	0.71	1.79E-02	7.85E-02	6.33E-03	2.77E-02	3.16E-02	0.14	2.98E-02	0.13	5812.03	0.11	1.10E-02	5818.03
C-02	Waukesha L7042GSI	0.25	1.10	0.16	0.71	1.79E-02	7.85E-02	6.33E-03	2.77E-02	3.16E-02	0.14	2.98E-02	0.13	5812.03	0.11	1.10E-02	5818.03
C-03	Waukesha L7042GSI	0.25	1.10	0.16	0.71	1.79E-02	7.85E-02	6.33E-03	2.77E-02	3.16E-02	0.14	2.98E-02	0.13	5812.03	0.11	1.10E-02	5818.03
C-04	Waukesha L7042GSI	0.25	1.10	0.16	0.71	1.79E-02	7.85E-02	6.33E-03	2.77E-02	3.16E-02	0.14	2.98E-02	0.13	5812.03	0.11	1.10E-02	5818.03
C-05	Waukesha L7042GSI	0.25	1.10	0.16	0.71	1.79E-02	7.85E-02	6.33E-03	2.77E-02	3.16E-02	0.14	2.98E-02	0.13	5812.03	0.11	1.10E-02	5818.03
C-06	Waukesha L7042GSI	0.25	1.10	0.16	0.71	1.79E-02	7.85E-02	6.33E-03	2.77E-02	3.16E-02	0.14	2.98E-02	0.13	5812.03	0.11	1.10E-02	5818.03
C-07	Waukesha L7042GSI	0.25	1.10	0.16	0.71	1.79E-02	7.85E-02	6.33E-03	2.77E-02	3.16E-02	0.14	2.98E-02	0.13	5812.03	0.11	1.10E-02	5818.03
C-08	Waukesha L7042GSI	0.25	1.10	0.16	0.71	1.79E-02	7.85E-02	6.33E-03	2.77E-02	3.16E-02	0.14	2.98E-02	0.13	5812.03	0.11	1.10E-02	5818.03
C-09	Waukesha L7042GSI	0.25	1.10	0.16	0.71	1.79E-02	7.85E-02	6.33E-03	2.77E-02	3.16E-02	0.14	2.98E-02	0.13	5812.03	0.11	1.10E-02	5818.03
C-10	Waukesha L7042GSI	0.25	1.10	0.16	0.71	1.79E-02	7.85E-02	6.33E-03	2.77E-02	3.16E-02	0.14	2.98E-02	0.13	5812.03	0.11	1.10E-02	5818.03
FUG	Facility-wide Fugitive Emissions	*	1.69	-	-	*	0.21	*	0.29	-	-	-	-	2.78	23.41	-	587.92
F-01	Process Flare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vent	Venting SSM	-	1.00	-	-	-	-	-	-	-	-	-	-	0.76	6.40	-	160.70
SSM/M	Malfunction	-	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Proposed Equipment																	
C-11	Caterpillar G3606	1.03	4.53	0.83	3.62	6.23E-03	2.73E-02	5.78E-03	2.53E-02	0.12	0.52	7.28E-02	0.32	7258.86	0.14	1.37E-02	7266.36
C-12	Caterpillar G3606	1.03	4.53	0.83	3.62	6.23E-03	2.73E-02	5.78E-03	2.53E-02	0.12	0.52	7.28E-02	0.32	7258.86	0.14	1.37E-02	7266.36
C-13	Waukesha L7042GSI	0.25	1.10	0.16	0.71	1.79E-02	7.85E-02	6.33E-03	2.77E-02	3.16E-02	0.14	2.98E-02	0.13	5812.03	0.11	1.10E-02	5818.03
	Total	**4.83**	**24.84**	**3.45**	**15.09**	**0.21**	**1.13**	**0.08**	**0.65**	**0.59**	**2.56**	**0.47**	**2.08**	**78,453.60**	**31.28**	**0.15**	**79,279.70**

Controlled Emissions

Unit No.	Description/Source	Total HAP pph	Total HAP tpy	Formaldehyde pph	Formaldehyde tpy	Benzene pph	Benzene tpy	Toluene pph	Toluene tpy	Acetaldehyde pph	Acetaldehyde tpy	Acrolein pph	Acrolein tpy	CO_2 tpy	CH_4 tpy	N_2O tpy	CO_2e tpy
Unchanged Sources																	
C-01	Waukesha L7042GSI	0.12	0.53	3.26E-02	0.14	1.79E-02	7.85E-02	6.33E-03	2.77E-02	3.16E-02	0.14	2.98E-02	0.13	5812.03	0.11	0.011	5818.03
C-02	Waukesha L7042GSI	0.12	0.53	3.26E-02	0.14	1.79E-02	7.85E-02	6.33E-03	2.77E-02	3.16E-02	0.14	2.98E-02	0.13	5812.03	0.11	0.011	5818.03
C-03	Waukesha L7042GSI	0.12	0.53	3.26E-02	0.14	1.79E-02	7.85E-02	6.33E-03	2.77E-02	3.16E-02	0.14	2.98E-02	0.13	5812.03	0.11	0.011	5818.03
C-04	Waukesha L7042GSI	0.12	0.53	3.26E-02	0.14	1.79E-02	7.85E-02	6.33E-03	2.77E-02	3.16E-02	0.14	2.98E-02	0.13	5812.03	0.11	0.011	5818.03
C-05	Waukesha L7042GSI	0.12	0.53	3.26E-02	0.14	1.79E-02	7.85E-02	6.33E-03	2.77E-02	3.16E-02	0.14	2.98E-02	0.13	5812.03	0.11	0.011	5818.03
C-06	Waukesha L7042GSI	0.12	0.53	3.26E-02	0.14	1.79E-02	7.85E-02	6.33E-03	2.77E-02	3.16E-02	0.14	2.98E-02	0.13	5812.03	0.11	0.011	5818.03
C-07	Waukesha L7042GSI	0.12	0.53	3.26E-02	0.14	1.79E-02	7.85E-02	6.33E-03	2.77E-02	3.16E-02	0.14	2.98E-02	0.13	5812.03	0.11	0.011	5818.03
C-08	Waukesha L7042GSI	0.12	0.53	3.26E-02	0.14	1.79E-02	7.85E-02	6.33E-03	2.77E-02	3.16E-02	0.14	2.98E-02	0.13	5812.03	0.11	0.011	5818.03
C-09	Waukesha L7042GSI	0.12	0.53	3.26E-02	0.14	1.79E-02	7.85E-02	6.33E-03	2.77E-02	3.16E-02	0.14	2.98E-02	0.13	5812.03	0.11	0.011	5818.03
C-10	Waukesha L7042GSI	0.12	0.53	3.26E-02	0.14	1.79E-02	7.85E-02	6.33E-03	2.77E-02	3.16E-02	0.14	2.98E-02	0.13	5812.03	0.11	0.011	5818.03
FUG	Facility-wide Fugitive Emissions	*	1.69	-	-	*	0.21	*	0.29	-	-	-	-	2.78	23.41	-	587.92
F-01	Process Flare	0.085	0.10	-	-	-	-	-	-	-	-	-	-	1542.84	5.81	0.0027	1688.93
Vent	Venting SSM	-	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SSM/M	Startup, Shutdown, Maintenance, and Malfunction	-	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Proposed Equipment																	
C-11	Caterpillar G3606	0.54	2.38	0.34	1.47	6.23E-03	2.73E-02	5.78E-03	2.53E-02	0.12	0.52	7.28E-02	0.32	7258.86	0.14	0.014	7266.36
C-12	Caterpillar G3606	0.54	2.38	0.34	1.47	6.23E-03	2.73E-02	5.78E-03	2.53E-02	0.12	0.52	7.28E-02	0.32	7258.86	0.14	0.014	7266.36
C-13	Waukesha L7042GSI	0.12	0.53	3.26E-02	0.14	1.79E-02	7.85E-02	6.33E-03	2.77E-02	3.16E-02	0.14	2.98E-02	0.13	5812.03	0.11	0.011	5818.03
	Total	**2.50**	**14.37**	**1.03**	**4.51**	**0.21**	**1.13**	**0.081**	**0.65**	**0.59**	**2.56**	**0.47**	**2.08**	**79,995.68**	**30.70**	**0.15**	**80,807.93**

"-" Indicates emissions of this pollutant are not expected
"*" Indicates hourly emissions are not appropriate for this unit

TABLE 6-2

Targa Midstream Services LLC – Brininstool Compressor Station

Waukesha L7042GSI Compressor Engines

Unit No(s): C-01 to C-10, C-13
Description: Waukesha L7042GSI Rich Burn Engine

Engine Data

Horsepower:	1478	hp	Catalyst Manufactuer Data
Fuel consumption:	7675	Btu/hp-hr	MFG Data
Fuel heat value:	1000	Btu/scf	Nominal
Heating rate:	11.3	MMBtu/hr	
Fuel usage:	0.011	MMscf/hr	
	99.37	MMscf/yr	
Operating hours:	8760.0	hours/year	

Emission Rates

Uncontrolled Emissions

NO_x	CO	VOC[1]	SO_2[2]	PM^3	HCOH	Acetaldehyde[4]	Acrolein[4]	Benzene[4]	Ethylbenzene[4]	n-hexane[4]	Toluene[4]	Xylene[4]	Total HAPs[4]	
13	9	0.3			0.05									g/hp-hr
			5.88E-04	0.01941		0.00279	0.00263	0.00158	0.0000248	-	0.000558	0.000195		lb/MMBtu
42.36	**29.33**	**0.98**	**0.00667**	**0.22**	**0.16**	**0.032**	**0.030**	**0.018**	**0.00028**	**-**	**0.00633**	**0.00221**	**0.25**	**lb/hr**
185.53	**128.45**	**4.28**	**0.0292**	**0.96**	**0.71**	**0.14**	**0.13**	**0.079**	**0.0012**	**-**	**0.028**	**0.0097**	**1.10**	**tpy**

Controlled Emissions

NO_x	CO	VOC[1]	SO_2[2]	PM^3	HCOH	Acetaldehyde[4]	Acrolein[4]	Benzene[4]	Ethylbenzene[4]	n-hexane[4]	Toluene[4]	Xylene[4]	Total HAPs[4]		
0.494	**0.45**	**0.15**			**0.008**									g/hp-hr	Catalyst Manufacturer Data[5]
25%	**25%**	**25%**			**25%**									Safety Factor	
0.62	0.56	0.188			0.010									g/hp-hr	
95.3%	93.8%	37.5%			80.0%									%	Control Efficiency
				0.01941		0.00279	0.00263	0.00158	0.0000248	-	0.000558	0.000195		lb/MMBtu	AP-42 Table 3.2-3
2.01	**1.83**	**0.61**	**0.0067**	**0.22**	**0.033**	**0.032**	**0.030**	**0.018**	**0.00028**	**-**	**0.00633**	**0.00221**	**0.12**	**lb/hr**	
8.81	**8.03**	**2.68**	**0.0292**	**0.96**	**0.14**	**0.14**	**0.13**	**0.079**	**0.0012**	**-**	**0.028**	**0.0097**	**0.53**	**tpy**	

Greenhouse Gas Emissions

CO_2	CH_4	N_2O	CO_2e	
53.06	0.001	0.0001		kg/MMBtu 40 CFR 98 Subpart C
5812.03	**0.110**	**0.0110**	**5818.03**	**tpy**
1	25	298		GWP
	2.73842	3.2642		

Notes

[1] VOC emissions include VOC plus HCOH emisions.

[2] SO_2 emissions are based on the conversion of H_2S to SO_2 during the combustion process and a 1:1 molar ratio conversion of H_2S to SO_2. The fuel gas concentration is based on 60 ppm of H_2S.

[3] It is assumed that TSP = PM_{10} = $PM_{2.5}$

[4] Total HAPs were calculated using GRI-HAPCalc 3.01 with the manufacturer's HCOH emission rate substituted for the HAPCalc HCOH emission rate. Other individual HAPs calculated using GRI-HAPCalc 3.01.

[5] IAC Acoustics 3-way catalyst manufacturer's data. Please note the catalyst efficiency guaranteed by the manufacture shows a higher efficiency that what is used in the calculation on the CO and HCHO. The engines meet NSPS JJJJ and MACT ZZZZ emission requirements where applicable.

Exhaust Flow Rate:	9890	acfm
Exhaust Temp.:	1126	°F
Diameter:	1.0	ft
Velocity:	209.9	ft/s

TABLE 6-3

Targa Midstream Services LLC – Brininstool Compressor Station

Caterpillar G3606 Compressor Engines

Unit No(s): C-11, C-12
Description: Caterpillar G3606 Lean Burn Engine

Engine Data

Horsepower:	1875	hp	Catalyst Manufactuer Data
Fuel consumption:	7556	Btu/hp-hr	MFG Data
Fuel heat value:	1000	Btu/scf	Nominal
Heating rate:	14.2	MMBtu/hr	
Fuel usage:	0.014	MMscf/hr	
	124.1	MMscf/yr	
Operating hours:	8760.0	hours/year	

Emission Rates

Uncontrolled Emissions

NO_x	CO	VOC[1]	SO_2[2]	PM^3	HCOH	Acetaldehyde[4]	Acrolein[4]	Benzene[4]	Ethylbenzene[4]	n-hexane[4]	Toluene[4]	Xylene[4]	Total HAPs[4]		
0.5	2.2	0.29			0.2									g/hp-hr	
			5.88E-04	0.009987		0.00836	0.00514	0.00044	0.0000397	-	0.000408	0.000184		lb/MMBtu	
2.07	**9.09**	**1.20**	**0.00833**	**0.14**	**0.83**	**0.118**	**0.073**	**0.006**	**0.00056**	**-**	**0.00578**	**0.00261**	**1.03**	**lb/hr**	
9.05	**39.83**	**5.25**	**0.0365**	**0.62**	**3.62**	**0.52**	**0.32**	**0.027**	**0.0025**	**-**	**0.025**	**0.0114**	**4.53**	**tpy**	

Controlled Emissions

NO_x	CO	VOC[1]	SO_2[2]	PM^3	HCOH	Acetaldehyde[4]	Acrolein[4]	Benzene[4]	Ethylbenzene[4]	n-hexane[4]	Toluene[4]	Xylene[4]	Total HAPs[4]		
0.5	**0.2**	**0.2**			**0.065**									g/hp-hr	Catalyst Manufacturer Data[5]
25%	**25%**	**25%**			**25%**									Safety Factor	
0.63	0.25	0.250			0.081									g/hp-hr	
	88.6%	13.8%			59.4%									%	Control Efficiency
				0.009987		0.00836	0.00514	0.00044	0.0000397	-	0.000408	0.000184		lb/MMBtu	AP-42 Table 3.2-2
2.58	**1.03**	**1.03**	**0.0083**	**0.14**	**0.336**	**0.118**	**0.073**	**0.006**	**0.00056**	**-**	**0.00578**	**0.00261**	**0.54**	**lb/hr**	
11.32	**4.53**	**4.53**	**0.0365**	**0.62**	**1.47**	**0.52**	**0.32**	**0.027**	**0.0025**	**-**	**0.025**	**0.0114**	**2.38**	**tpy**	

Greenhouse Gas Emissions

CO_2	CH_4	N_2O	CO_2e		
53.06	0.001	0.0001		kg/MMBtu	40 CFR 98 Subpart C
7258.86	**0.137**	**0.0137**	**7266.36**	**tpy**	
1	25	298		GWP	

Notes

[1] VOC emissions include VOC plus HCOH emisions.

[2] SO_2 emissions are based on the conversion of H_2S to SO_2 during the combustion process and a 1:1 molar ratio conversion of H_2S to SO_2. The fuel gas concentration is based on 60 ppm of H_2S.

[3] It is assumed that TSP = PM_{10} = $PM_{2.5}$

Total HAPs were calculated using GRI-HAPCalc 3.01 with the manufacturer's HCOH emission rate substituted for the HAPCalc HCOH emission rate. Other individual HAPs calculated using

[4] GRI-HAPCalc 3.01.

[5] IAC Acoustics 3-way catalyst manufacturer's data. Please note the catalyst efficiency guaranteed by the manufacture shows a higher efficiency that what is used in the calculation on the CO and HCHO. The engines me NSPS JJJJ and MACT ZZZZ emission requirements where applicable.

Exhaust Flow Rate:	6843	acfm
Exhaust Temp.:	835	°F
Diameter:	1.67	ft
Velocity:	52.07	ft/s

TABLE 6-4

Targa Midstream Services LLC – Brininstool Compressor Station

Flare

Unit No(s): Flare
Description: Flaring

Flow Rate:

Vent Gas	20.0	MMscf/yr	Assumed SSM Flaring
	0.0083	MMscf/hr	based on MFG
	9.94	MMBtu/hr	scfh * Maximum heating value / 1000
Pilot	78.0	scf/hr	flare pilot
	0.0019	MMscf/d	scf/hr * 24 (hr/day) / 1e6 SCF/MMscf
	1000	BTU/scf	Nominal, sweet natural gas
	0.078	MMBtu/hr	
Flash Gas + Vent Gas + Pilot	10.02	MMBtu/hr	

Emission Calculations

Pilot Emissions	**NOx**	**CO**	**SO_2**	**H_2S**	**VOC**	**HAPs**	**Units**	
	0.0680	0.3100			0.66		lb/MMBtu	AP-42 Table 13.5-1 and 13.5-2
			2000	-			grains/10^6 scf	
							mol%	Assume no VOC content fuel (methane)
	0.0053	0.024			0.051		lb/hr	lb/MMBtu * MMBtu/hr
			1.30E-05	**-**		**-**	lb/hr	98% combustion H_2S; 100% conversion to SO_2
	0.02	**0.11**	**5.71E-05**	**-**	**2.25E-01**	**-**	tpy	8760 hrs/yr

Vent Gas Flaring	**NO_X**	**CO**	**SO_2**	**H_2S**	**VOC**	**HAPs**		
	0.0680	0.3100					lb/MMBtu	AP-42 Table 13.5-1 and 13.5-2
				0.94	136	4	lb/hr	Gas Analysis
				98%	98%	98%		Estimated control efficiency for H_2S and VOC
			100%					Estimated H_2S conversion to SO_2 (1-1 molar ratio)
	0.68	3.08	1.73	0.02	2.73	0.08	lb/hr	Based on pilot plus flared gas
	0.81	3.70	2.07	0.02	3.27	0.10	tpy	

Total Pilot + Flaring	**NO_X**	**CO**	**SO_2**	**H_2S**	**VOC**	**HAPs**	
	0.68	**3.11**	**1.73**	**0.0187**	**2.73**	**0.08**	**lb/hr**
	0.83	**3.80**	**2.07**	**0.022**	**3.27**	**0.10**	**tpy**

TABLE 6-5

Targa Midstream Services LLC - Brininstool Compressor Station

Flare GHG Emissions

§98.233(n) Flare stack GHG emissions.

Step 1. Calculate contribution of un-combusted CH_4 emissions from the regenerator combustion gas vent (actual conditions).

$E_{a,CH4}$ (un-combusted) = V_a * (1- η)* X_{CH4} *(Equation W-39B)*

where:

$E_{a,CH4}$ = contribution of annual un-combusted CH_4 emissions from regenerator in cubic feet under actual conditions.

V_a = volume of gas sent to combustion unit during the year (cf)

η = Fraction of gas combusted by a burning flare (or regenerator), default value from Subpart W = 0.98
For gas sent to an unlit flare, η is zero.

X_{CH4} = Mole fraction of CH_4 in gas to the flare = 0.7079 (Client gas analysis)

Step 2. Calculate contribution of un-combusted CO_2 emissions from the regenerator combustion gas vent (actual conditions).

$E_{a,CO2}$ = V_a * X_{CO2} *(Equation W-20)*

where:

$E_{a,CO2}$ = contribution of annual un-combusted CO_2 emissions from regenerator in cubic feet under actual conditions.

V_a = volume of gas sent to combustion unit during the year (cf)

X_{CO2} = Mole fraction of CO_2 in gas to the flare = 0.03

Step 3. Calculate contribution of combusted CO_2 emissions from the regenerator combustion gas vent (actual conditions).

$E_{a,CO2}$ (combusted) = $\sum$ (η * V_a * Y_j * R_j) *(Equation W-21)*

where:

η = Fraction of gas combusted by a burning flare (or regenerator) = 0.98
For gas sent to an unlit flare, η is zero.

V_a = volume of gas sent to combustion unit during the year (cf)

Y_j = mole fraction of gas hydrocarbon constituents j:

Constituent j, Methane =	0.7079	(Client gas analysis)
Constituent j, Ethane =	0.1203	
Constituent j, Propane =	0.0671	
Constituent j, Butane =	0.03058	
Constituent j, Pentanes Plus =	0.019354	

R_j = number of carbon atoms in the gas hydrocarbon constituent j:

Constituent j, Methane =	1
Constituent j, Ethane =	2
Constituent j, Propane =	3
Constituent j, Butane =	4
Constituent j, Pentanes Plus =	5

Step 4. Calculate GHG volumetric emissions at standard conditions (scf)

$$E_{s,n} = E_{a,n} * \frac{(459.67 + T_s)}{(459.67 + T_a)} * \frac{P_a}{P_s}$$ *(Equation W-33)*

where:

$E_{s,n}$ = GHG i volumetric emissions at standard temperature and pressure (STP) in cubic feet

$E_{a,n}$ = GHG i volumetric emissions at actual conditions (cf)

T_s = Temperature at standard conditions (F) = 60 F

T_a = Temperature at actual conditions (F) = 76 F (Hobbs, NM from Western Regional Climate Center)

P_s = Absolute pressure at standard conditions (psia) = 14.7 psia

P_a = Absolute pressure at actual conditions (psia) = 14.7 psia (Assumption)

Constant = 459.67 (temperature conversion from F to R)

Step 5. Calculate annual CH_4 and CO_2 mass emissions (ton).

$Mass_{s,i}$ = $E_{s,i}$ * ρ_i * 0.0011023 *(Equation W-36)*

where:

$Mass_{s,i}$ = GHG i (CO_2, CH_4, or N_2O) mass emissions at standard conditions in tons (tpy)

$E_{s,i}$ = GHG i (CO_2, CH_4, or N_2O) volumetric emissions at standard conditions (cf)

ρ_i = Density of GHG i. Use:

CH_4:	0.0192 kg/ft^3 (at 60F and 14.7 psia)
CO_2:	0.0526 kg/ft^3 (at 60F and 14.7 psia)

Step 6. Calculate annual N_2O emissions from portable or stationary fuel combustion sources under actual conditions (cf) using Equation W-4

$Mass_{N2O}$ = 0.0011023 * Fuel * HHV * EF *(Equation W-40)*

where:

$Mass_{N2O}$ = annual N_2O emissions from combustion of a particular type of fuel (tons).

Fuel = mass or volume of the fuel combusted

HHV = high heat value of the fuel
Field gas HHV = 1.235E-03 MMBtu/scf (Default provided in Subpart W Final Amendment;)

EF = 1.00E-04 kg N_2O/MMBtu

10^{-3} = conversion factor from kg to metric tons.

Step 7. Calculate total annual emission from flare (regenerator) by summing Equations W-40, W-19, W-20, and W-21.

Gas Sent to Flare (cf/yr)	CH_4 Un-Combusted, $E_{a,CH4}$ (cf)	CO_2 Un-Combusted, $E_{a,CO2}$ (cf)	CO_2 Combusted, $E_{a,CO2}$ (cf)	CH_4 Un-Combusted, $E_{a,CH4}$ (scf)	CO_2 Un-Combusted, $E_{a,CO2}$ (scf)	CO_2 Combusted, $E_{a,CO2}$ (scf)	CH_4 Un-Combusted, $E_{a,CH4}$ (tpy)	CO_2 Un-Combusted, $E_{a,CO2}$ (tpy)	CO_2 Combusted, $E_{a,CO2}$ (tpy)	N_2O Mass Emissions (tpy)
20,000,000	283180	613,183	26,830,936	274,568	594,535	26,014,949	5.81	34.47	1,508.37	0.00272

TABLE 6-6

Targa Midstream Services LLC – Brininstool Compressor Station

Facility-Wide Fugitive Emissions

Emission Unit: FUG

Source Description: Facility-Wide Fugitive Emissions

COMPONENT	CURRENT COUNT [1]	EPA[2] FACTOR (lb/hr-src)	REDUCTION ALLOWED FOR LDAR	% VOC IN $STREAM_3$	VOC EMISSIONS (lb/hr)	VOC EMISSIONS (tpy)	% H_2S IN STREAM[3]	H_2S EMISSIONS (lb/hr)	H_2S EMISSIONS (tpy)	% HAP IN STREAM	HAP EMISSIONS (lb/hr)	HAP EMISSIONS (tpy)	% BENZENE IN STREAM	BENZENE EMISSIONS (lb/hr)	BENZENE EMISSIONS (tpy)	% TOLUENE IN STREAM	TOLUENE EMISSIONS (lb/hr)	TOLUENE EMISSIONS (tpy)
Inlet Gas (gas)																		
VALVES	817	0.00992	0%	30.0%	2.43	10.65	0.18%	1.5E-02	6.4E-02	0.69%	5.6E-02	2.5E-01	0.16%	1.3E-02	5.6E-02	0.071%	5.8E-03	2.5E-02
FLANGES	1906	0.00086	0%	30.0%	0.492	2.15	0.18%	3.0E-03	1.3E-02	0.69%	1.1E-02	5.0E-02	0.16%	2.6E-03	1.1E-02	0.071%	1.2E-03	5.1E-03
CONNECTORS	817	0.00044	0%	30.0%	0.108	0.47	0.18%	6.5E-04	2.8E-03	0.69%	2.5E-03	1.1E-02	0.16%	5.7E-04	2.5E-03	0.071%	2.6E-04	1.1E-03
RELIEF VALVES	31	0.01940	0%	30.0%	0.18	0.79	0.18%	1.1E-03	4.7E-03	0.69%	4.2E-03	1.8E-02	0.16%	9.6E-04	4.2E-03	0.071%	4.3E-04	1.9E-03
COMPRESSOR SEALS	12	0.01940	0%	30.0%	0.07	0.31	0.18%	4.2E-04	1.8E-03	0.69%	1.6E-03	7.0E-03	0.16%	3.7E-04	1.6E-03	0.071%	1.7E-04	7.2E-04
PUMP SEALS	7	0.00529	0%	30.0%	1.1E-02	0.05	0.18%	6.7E-05	2.9E-04	0.69%	2.6E-04	1.1E-03	0.16%	5.9E-05	2.6E-04	0.071%	2.6E-05	1.2E-04
Condensate (light oil)																		
VALVES	300	5.5E-03	0%	100.0%	1.65	7.2	0.18%	3.0E-03	1.3E-02	14.3%	2.4E-01	1.04	1.4%	2.3E-02	1.0E-01	2.7%	4.5E-02	2.0E-01
FLANGES	600	2.4E-04	0%	100.0%	1.5E-01	0.6	0.18%	2.6E-04	1.1E-03	14.3%	2.1E-02	0.0913	1.4%	2.0E-03	9.0E-03	2.7%	3.9E-03	1.7E-02
CONNECTORS	300	4.6E-04	0%	100.0%	1.4E-01	0.6	0.18%	2.5E-04	1.1E-03	14.3%	2.0E-02	0.087	1.4%	2.0E-03	8.6E-03	2.7%	3.7E-03	1.6E-02
PUMP SEALS	8	2.9E-02	0%	100.0%	0.23	1.0	0.18%	4.1E-04	1.8E-03	14.3%	3.3E-02	0.14	1.4%	3.2E-03	1.4E-02	2.7%	6.2E-03	2.7E-02
TOTAL EMISSIONS					5.46	23.91		0.024	0.104		0.39	1.69		0.048	0.210		0.066	0.290

[1] Fugitive emission source counts were calculated based on the types of field equipment at the facility and a general source count per equipment.

[2] Factors are from Protocol for Equipment Leak Emission Estimates from the EPA (Table 2-4).

[3] VOC concentrations are conservatively estimated. Condensate H_2S concentration is conservatively set equal to inlet gas H_2S concentration. Fuel Gas H2S concentration is based on 60 ppm of H2S.

TABLE 6-7

Targa Midstream Services LLC – Brininstool Compressor Station

Storage Tank Emissions

Unit No(s): TK-1, TK-3, TK-4, TK-5, TK-6, TK-7
Description: 500 gal storage tank

Facility Tank Summary

Unit	Tank Contents	Exemption
TK-1	Methanol	20.2.72.202.B.5.NMAC
TK-3	Glycol	20.2.72.202.B.2 NMAC
TK-4	Lube Oil	20.2.72.202.B.2 NMAC
TK-5	Antifreeze	20.2.72.202.B.2 NMAC
TK-6	Produced Water	20.2.72.202.B.5.NMAC
TK-7	Water	20.2.72.202.B.5.NMAC

Tank Emissions

Uncontrolled Annual Emissions

Unit	Tank Description	Annual Throughput (gal/yr)	W&B (lb/yr)	W&B Losses (lb/hr)	W&B Losses (tpy)	Flash Losses (lb/hr)	Flash Losses (tpy)	Annual VOC Emissions (lb/yr)	Hourly VOC Emissions (lb/hr)	Annual VOC Emissions (tpy)	Hourly H_2S Emissions (lb/hr)	Annual H_2S Emissions (tpy)
TK-1	500 gal Methanol [1, 2]	1,500	16.62	-	-	-	-	16.62	-	0.0083	-	-
TK-6	Produced Water [3]	950,460	-	0.086	0.039	0.62	0.092	-	0.70	0.13	0.030	0.0036

[1] Standing and working losses calculated using TANKS 4.0.9d.

[2] Methanol tank does not have flash losses.

[3] ProMax was used to calculate emissions for the produced water tank. Hourly emissions are based on the maximum pump rate and the annual emissions are based on throughput.

Section 6.a

Green House Gas Emissions

(Submitting under 20.2.70, 20.2.72 20.2.74 NMAC)

Title V (20.2.70 NMAC), Minor NSR (20.2.72 NMAC), and PSD (20.2.74 NMAC) applicants must estimate and report greenhouse gas (GHG) emissions to verify the emission rates reported in the public notice, determine applicability to 40 CFR 60 Subparts, and to evaluate Prevention of Significant Deterioration (PSD) applicability. GHG emissions that are subject to air permit regulations consist of the sum of an aggregate group of these six greenhouse gases: carbon dioxide (CO_2), nitrous oxide (N_2O), methane (CH_4), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6).

Calculating GHG Emissions:

1. Calculate the ton per year (tpy) GHG mass emissions and GHG CO_2e emissions from your facility.
2. GHG mass emissions are the sum of the total annual tons of greenhouse gases without adjusting with the global warming potentials (GWPs). GHG CO_2e emissions are the sum of the mass emissions of each individual GHG multiplied by its GWP found in Table A-1 in 40 CFR 98 Mandatory Greenhouse Gas Reporting.
3. Emissions from routine or predictable start up, shut down, and maintenance must be included.
4. Report GHG mass and GHG CO_2e emissions in Table 2-P of this application. Emissions are reported in **short** tons per year and represent each emission unit's Potential to Emit (PTE).
5. All Title V major sources, PSD major sources, and all power plants, whether major or not, must calculate and report GHG mass and CO2e emissions for each unit in Table 2-P.
6. For minor source facilities that are not power plants, are not Title V, and are not PSD there are three options for reporting GHGs in Table 2-P: 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHGs as a second separate unit; 3) or check the following ☐ By checking this box, the applicant acknowledges the total CO2e emissions are less than 75,000 tons per year. **GHG emission calculations are included in Section 6.**

Sources for Calculating GHG Emissions:

- Manufacturer's Data
- AP-42 Compilation of Air Pollutant Emission Factors at http://www.epa.gov/ttn/chief/ap42/index.html
- EPA's Internet emission factor database WebFIRE at http://cfpub.epa.gov/webfire/
- 40 CFR 98 Mandatory Green House Gas Reporting except that tons should be reported in short tons rather than in metric tons for the purpose of PSD applicability.
- API Compendium of Greenhouse Gas Emissions Methodologies for the Oil and Natural Gas Industry. August 2009 or most recent version.
- Sources listed on EPA's NSR Resources for Estimating GHG Emissions at http://www.epa.gov/nsr/clean-air-act-permitting-greenhouse-gases:

Global Warming Potentials (GWP):
Applicants must use the Global Warming Potentials codified in Table A-1 of the most recent version of 40 CFR 98 Mandatory Greenhouse Gas Reporting. The GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to that of one unit mass of CO_2 over a specified time period.

"Greenhouse gas" for the purpose of air permit regulations is defined as the aggregate group of the following six gases: carbon dioxide, nitrous oxide, methane, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. **(20.2.70.7 NMAC, 20.2.74.7 NMAC).** You may also find GHGs defined in 40 CFR 86.1818-12(a).

Metric to Short Ton Conversion:
Short tons for GHGs and other regulated pollutants are the standard unit of measure for PSD and title V permitting programs. 40 CFR 98 Mandatory Greenhouse Reporting requires metric tons.
1 metric ton = 1.10231 short tons (per Table A-2 to Subpart A of Part 98 – Units of Measure Conversions)

Section 7

Information Used To Determine Emissions

Information Used to Determine Emissions shall include the following:

- ☒ If manufacturer data are used, include specifications for emissions units and control equipment, including control efficiencies specifications and sufficient engineering data for verification of control equipment operation, including design drawings, test reports, and design parameters that affect normal operation.
- ☐ If test data are used, include a copy of the complete test report. If the test data are for an emissions unit other than the one being permitted, the emission units must be identical. Test data may not be used if any difference in operating conditions of the unit being permitted and the unit represented in the test report significantly effect emission rates.
- ☒ If the most current copy of AP-42 is used, reference the section and date located at the bottom of the page. Include a copy of the page containing the emissions factors, and clearly mark the factors used in the calculations.
- ☐ If an older version of AP-42 is used, include a complete copy of the section.
- ☒ If an EPA document or other material is referenced, include a complete copy.
- ☒ Fuel specifications sheet.
- ☒ If computer models are used to estimate emissions, include an input summary (if available) and a detailed report, and a disk containing the input file(s) used to run the model. For tank-flashing emissions, include a discussion of the method used to estimate tank-flashing emissions, relative thresholds (i.e., permit or major source (NSPS, PSD or Title V)), accuracy of the model, the input and output from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis.

Information used to determine emissions is included in this section.

SHIPPING ADDRESS:
2800 WESTOVER STREET
ODESSA, TEXAS 79764

BILLING ADDRESS:
P.O. BOX 69210
ODESSA, TEXAS 79769-0210

MOBILE ANALYTICAL

LABORATORIES, INC.

LABORATORY IN ODESSA
PHONE (432) 337-4744 | FAX (432) 337-8781

LAB 61650

C6+ GAS ANALYSIS REPORT

COMPANY . . .	TARGA	STATION	118110051
LEASE/PLANT .	BRINNSTOOL	PRESS. PSIG	715
OPERATOR . .	TARGA	TEMP. DEG. F	57
SAMPLE	FUEL GAS	SAMPLE TYPE . . .	SPOT
CYLINDER . .	291	SAMPLED / RECEIVED .	10/22/21
H2S PPM . . .	0.0	SAMPLED BY	SR

FRACTIONAL ANALYSIS

COMPONENT	MOL %	GPM C2+	GPM C5+
NITROGEN	1.573	0.000	0.000
CARBON DIOXIDE . .	0.049	0.000	0.000
METHANE	97.213	0.000	0.000
ETHANE	1.151	0.307	0.000
PROPANE	0.014	0.004	0.000
ISO-BUTANE	0.000	0.000	0.000
N-BUTANE	0.000	0.000	0.000
ISO-PENTANE	0.000	0.000	0.000
N-PENTANE	0.000	0.000	0.000
HEXANES PLUS . . .	0.000	0.000	0.000
TOTALS	100.000	0.311	0.000

CALC. SP.GRAVITY 0.567

BTU/CU. FT. (14.650 PSIA, 60 DEG. F)
CALC. GROSS WET 984
CALC. GROSS DRY 1001

DISTRIBUTION:
MS CINDY KLEIN

NOTES:

REPORT DATE: 10/27/21

G3606

GAS ENGINE SITE SPECIFIC TECHNICAL DATA
Golden Station

GAS COMPRESSION APPLICATION

ENGINE SPEED (rpm):	1000	RATING STRATEGY:	STANDARD
COMPRESSION RATIO:	7.6	FUEL SYSTEM:	GAV WITH AIR FUEL RATIO CONTROL
AFTERCOOLER TYPE:	SCAC	**SITE CONDITIONS:**	
AFTERCOOLER - STAGE 2 INLET (°F):	130	FUEL:	McKnight
AFTERCOOLER - STAGE 1 INLET (°F):	174	FUEL PRESSURE RANGE(psig): (See note 1)	58.0-70.3
JACKET WATER OUTLET (°F):	190	FUEL METHANE NUMBER:	91.0
ASPIRATION:	TA	FUEL LHV (Btu/scf):	915
COOLING SYSTEM:	JW+1AC, OC+2AC	ALTITUDE(ft):	2650
CONTROL SYSTEM:	ADEM4	INLET AIR TEMPERATURE(°F):	110
EXHAUST MANIFOLD:	DRY	STANDARD RATED POWER:	1875 bhp@1000rpm
COMBUSTION:	LOW EMISSION		
NOx EMISSION LEVEL (g/bhp-hr NOx):	0.5		
SET POINT TIMING:	18		

				MAXIMUM RATING	SITE RATING AT MAXIMUM INLET AIR TEMPERATURE		
RATING		**NOTES**	**LOAD**	**100%**	**100%**	**75%**	**50%**
ENGINE POWER	(WITHOUT FAN)	(2)	bhp	1875	1875	1406	938
INLET AIR TEMPERATURE			°F	110	110	110	110
ENGINE DATA							
FUEL CONSUMPTION (LHV)		(3)	Btu/bhp-hr	6811	6811	7089	7668
FUEL CONSUMPTION (HHV)		(3)	Btu/bhp-hr	7556	7556	7864	8506
AIR FLOW (@inlet air temp, 14.7 psia)	(WET)	(4)(5)	ft3/min	4868	4868	3687	2536
AIR FLOW	(WET)	(4)(5)	lb/hr	20334	20334	15403	10593
FUEL FLOW (60ºF, 14.7 psia)			scfm	233	233	182	131
INLET MANIFOLD PRESSURE		(6)	in Hg(abs)	100.0	100.0	76.7	54.9
EXHAUST TEMPERATURE - ENGINE OUTLET		(7)	°F	835	835	907	990
EXHAUST GAS FLOW (@engine outlet temp, 14.5 psia)	(WET)	(8)(5)	ft3/min	11810	11810	9458	6915
EXHAUST GAS MASS FLOW	(WET)	(8)(5)	lb/hr	20948	20948	15882	10939
EMISSIONS DATA - ENGINE OUT							
NOx (as NO2)		(9)(10)	g/bhp-hr	0.50	0.50	0.50	0.50
CO		(9)(10)	g/bhp-hr	2.20	2.20	2.20	2.20
THC (mol. wt. of 15.84)		(9)(10)	g/bhp-hr	4.60	4.60	4.81	5.08
NMHC (mol. wt. of 15.84)		(9)(10)	g/bhp-hr	0.43	0.43	0.44	0.47
NMNEHC (VOCs) (mol. wt. of 15.84)		(9)(10)(11)	g/bhp-hr	0.29	0.29	0.30	0.32
HCHO (Formaldehyde)		(9)(10)	g/bhp-hr	0.20	0.20	0.21	0.24
CO2		(9)(10)	g/bhp-hr	433	433	447	484
EXHAUST OXYGEN		(9)(12)	% DRY	10.9	10.9	10.7	10.3
HEAT REJECTION							
HEAT REJ. TO JACKET WATER (JW)		(13)	Btu/min	21991	21991	17926	14591
HEAT REJ. TO ATMOSPHERE		(13)	Btu/min	5684	5684	5573	5374
HEAT REJ. TO LUBE OIL (OC)		(13)	Btu/min	11708	11708	10800	9347
HEAT REJ. TO A/C - STAGE 1 (1AC)		(13)(14)	Btu/min	17942	17942	8874	2675
HEAT REJ. TO A/C - STAGE 2 (2AC)		(13)(14)	Btu/min	7794	7794	4705	2310
COOLING SYSTEM SIZING CRITERIA							
TOTAL JACKET WATER CIRCUIT (JW+1AC)		(14)(15)	Btu/min	43029			
TOTAL STAGE 2 AFTERCOOLER CIRCUIT (OC+2AC)		(14)(15)	Btu/min	22234			

A cooling system safety factor of 0% has been added to the cooling system sizing criteria.

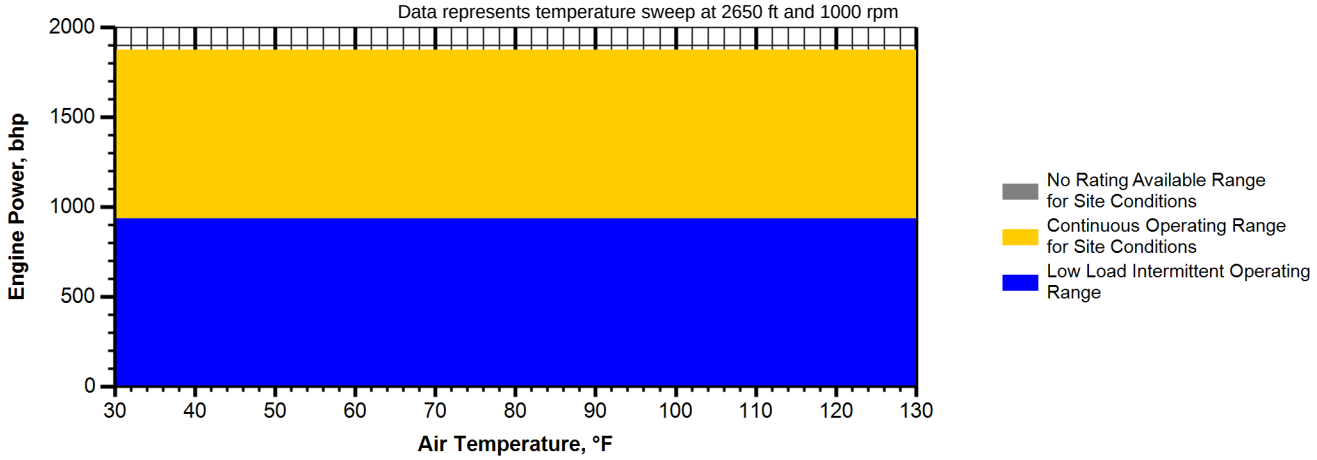
CONDITIONS AND DEFINITIONS

Engine rating obtained and presented in accordance with ISO 3046/1, adjusted for fuel, site altitude and site inlet air temperature. 100% rating at maximum inlet air temperature is the maximum engine capability for the specified fuel at site altitude and maximum site inlet air temperature. Maximum rating is the maximum capability at the specified aftercooler inlet temperature for the specified fuel at site altitude and reduced inlet air temperature. Lowest load point is the lowest continuous duty operating load allowed. No overload permitted at rating shown.

For notes information consult page three.

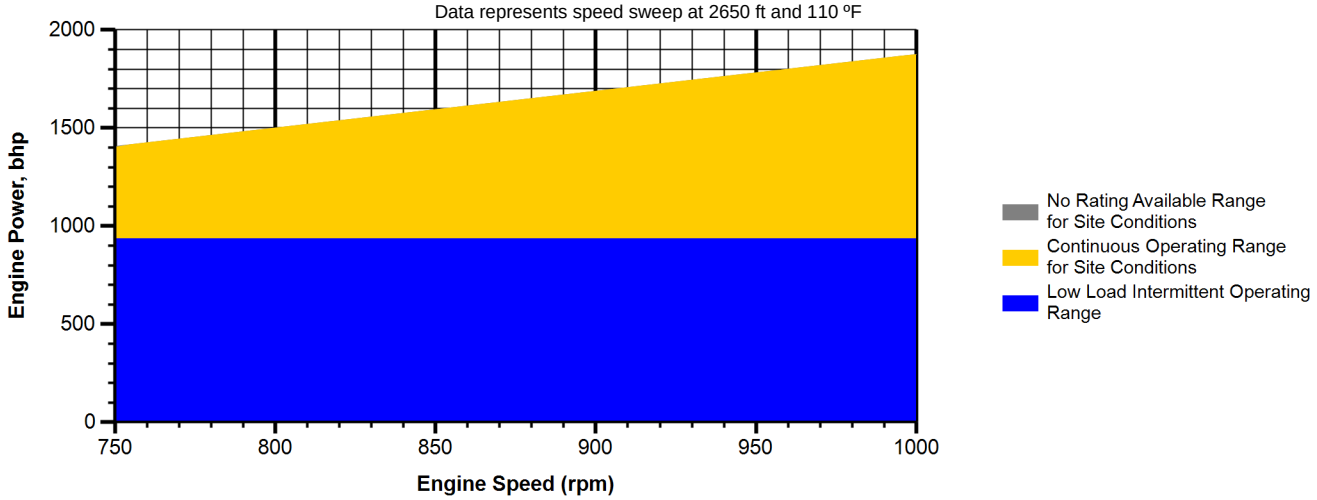
Engine Power vs. Inlet Air Temperature

Data represents temperature sweep at 2650 ft and 1000 rpm



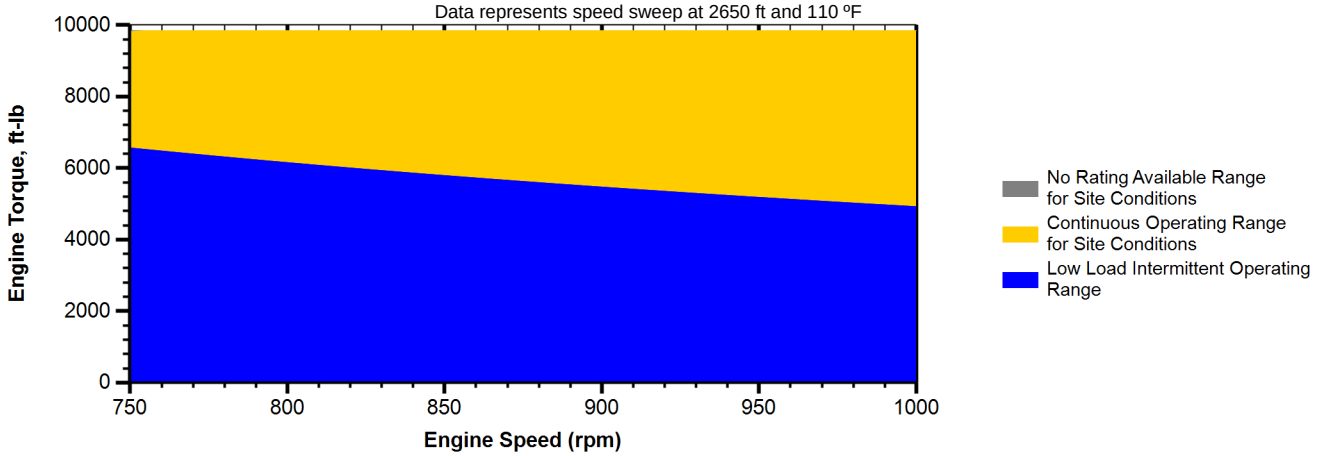
Engine Power vs. Engine Speed

Data represents speed sweep at 2650 ft and 110 ºF



Engine Torque vs. Engine Speed

Data represents speed sweep at 2650 ft and 110 ºF



Note:
At site conditions of 2650 ft and 110°F inlet air temp., constant torque can be maintained down to 755 rpm.The minimum speed for loading at these conditions is 750 rpm.

NOTES:

1. Fuel pressure range specified is to the engine gas shutoff valve (GSOV). Additional fuel train components should be considered in pressure and flow calculations.

2. Engine rating is with two engine driven water pumps. Tolerance is ± 3% of full load.

3. Engine rating obtained and presented in accordance with ISO 3046/1, adjusted for fuel, site altitude and site ambient temperature.

4. Air flow value is on a 'wet' basis. Flow is a nominal value with a tolerance of ± 5 %.

5. Inlet and Exhaust Restrictions must not exceed A&I limits based on full load flow rates from the standard technical data sheet.

6. Inlet manifold pressure is a nominal value with a tolerance of ± 5 %.

7. Exhaust temperature is a nominal value with a tolerance of (+)63°F, (-)54°F.

8. Exhaust flow value is on a "wet" basis. Flow is a nominal value with a tolerance of ± 6 %.

9. Emissions data is at engine exhaust flange prior to any after treatment.

10. Values listed are higher than nominal levels to allow for instrumentation, measurement, and engine-to-engine variations. They indicate the maximum values expected under steady state conditions. Fuel methane number cannot vary more than ± 3. THC, NMHC, and NMNEHC do not include aldehydes. An oxidation catalyst may be required to meet Federal, State or local CO or HC requirements.

11. VOCs - Volatile organic compounds as defined in US EPA 40 CFR 60, subpart JJJJ

12. Exhaust Oxygen level is the result of adjusting the engine to operate at the specified NOx level. Tolerance is ± 0.5.

13. Heat rejection values are nominal. Tolerances, based on treated water, are ± 10% for jacket water circuit, ± 50% for radiation, ± 20% for lube oil circuit, and ± 5% for aftercooler circuit.

14. Aftercooler heat rejection includes an aftercooler heat rejection factor for the site elevation and inlet air temperature specified. Aftercooler heat rejection values at part load are for reference only. Do not use part load data for heat exchanger sizing.

15. Cooling system sizing criteria are maximum circuit heat rejection for the site, with applied tolerances.

G3606

GAS ENGINE SITE SPECIFIC TECHNICAL DATA
Golden Station

GAS COMPRESSION APPLICATION

Constituent	Abbrev	Mole %	Norm
Water Vapor	H2O	0.0000	0.0000
Methane	CH4	94.9790	94.9799
Ethane	C2H6	2.7730	2.7730
Propane	C3H8	0.1200	0.1200
Isobutane	iso-C4H10	0.0040	0.0040
Norbutane	nor-C4H10	0.0110	0.0110
Isopentane	iso-C5H12	0.0030	0.0030
Norpentane	nor-C5H12	0.0030	0.0030
Hexane	C6H14	0.0150	0.0150
Heptane	C7H16	0.0000	0.0000
Nitrogen	N2	2.0810	2.0810
Carbon Dioxide	CO2	0.0100	0.0100
Hydrogen Sulfide	H2S	0.0000	0.0000
Carbon Monoxide	CO	0.0000	0.0000
Hydrogen	H2	0.0000	0.0000
Oxygen	O2	0.0000	0.0000
Helium	HE	0.0000	0.0000
Neopentane	neo-C5H12	0.0000	0.0000
Octane	C8H18	0.0000	0.0000
Nonane	C9H20	0.0000	0.0000
Ethylene	C2H4	0.0000	0.0000
Propylene	C3H6	0.0000	0.0000
TOTAL (Volume %)		99.9990	99.9999

Fuel Makeup:	McKnight
Unit of Measure:	English

Calculated Fuel Properties

Caterpillar Methane Number:	91.0
Lower Heating Value (Btu/scf):	915
Higher Heating Value (Btu/scf):	1015
WOBBE Index (Btu/scf):	1203
THC: Free Inert Ratio:	46.82
Total % Inerts (% N2, CO2, He):	2.091%
RPC (%) (To 905 Btu/scf Fuel):	100%
Compressibility Factor:	0.998
Stoich A/F Ratio (Vol/Vol):	9.55
Stoich A/F Ratio (Mass/Mass):	16.53
Specific Gravity (Relative to Air):	0.578
Fuel Specific Heat Ratio (K):	1.313

CONDITIONS AND DEFINITIONS

Caterpillar Methane Number represents the knock resistance of a gaseous fuel. It should be used with the Caterpillar Fuel Usage Guide for the engine and rating to determine the rating for the fuel specified. A Fuel Usage Guide for each rating is included on page 2 of its standard technical data sheet.

RPC always applies to naturally aspirated (NA) engines, and turbocharged (TA or LE) engines only when they are derated for altitude and ambient site conditions.

Project specific technical data sheets generated by the Caterpillar Gas Engine Rating Pro program take the Caterpillar Methane Number and RPC into account when generating a site rating.

Fuel properties for Btu/scf calculations are at 60F and 14.696 psia.

Caterpillar shall have no liability in law or equity, for damages, consequently or otherwise, arising from use of program and related material or any part thereof.

FUEL LIQUIDS

Field gases, well head gases, and associated gases typically contain liquid water and heavy hydrocarbons entrained in the gas. To prevent detonation and severe damage to the engine, hydrocarbon liquids must not be allowed to enter the engine fuel system. To remove liquids, a liquid separator and coalescing filter are recommended, with an automatic drain and collection tank to prevent contamination of the ground in accordance with local codes and standards.

To avoid water condensation in the engine or fuel lines, limit the relative humidity of water in the fuel to 80% at the minimum fuel operating temperature.

Jason Martindale
Direct: 505.592.1318
jmartindale@emittechnologies.com

PREPARED FOR: Alan Benavides
TARGA RESOURCES

QUOTE: EQN-2005-0106-R1
EXPIRES: 9/18/2020

GOLDEN STATION

APPLICATION INFORMATION

Driver:	Engine
Make:	Caterpillar
Model:	G3606 A4
Horsepower:	1875
RPM:	1000
Compression Ratio:	7.6:1
Exhaust Flow Rate:	11810
Exhaust Temperature:	835
Reference:	GERP
Fuel:	Natural Gas
Annual Operating Hours:	8760

PERFORMANCE DETAIL

HOUSING REFERENCE	ELH-5000-1820F-6CE0-362
CATALYST ELEMENTS	
Model:	RT-3615-H
Catalyst Type:	Premium Oxidation
Substrate Type:	Brazed
Element Size:	Rectangle, 36"x15"x3.5"
Element Quantity:	(3) Elements
Minimum Pre Cat Exhaust Temperature:	**710* F**

****POST CATALYST EMISSIONS ARE ONLY GUARANTEED FOR CATALYST ELEMENTS SUPPLIED BY EMIT**

UNCONTROLLED EMISSIONS DATA

	g/bhp-hr	lb/hr	Tons/Year
NOx:	0.5	2.07	9.05
CO:	2.2	9.09	39.83
THC:	4.6	19.01	83.29
NMHC:	0.43	1.78	7.79
NMNEHC:	0.29	1.2	5.25
HCHO:	0.2	0.83	3.62
Oxygen:	10.90%		

BEST ACHIEVABLE POST CATALYST EMISSIONS DATA

	g/bhp-hr	lb/hr
NOx:	Unaffected by Oxidation Catalyst	
CO:	< 0.20	0.83
VOC:	< 0.20	0.83
HCHO:	< 0.065	0.27

WARRANTY

EMIT Technologies,Inc. warrants that the goods supplied will be free from defects in workmanship by EMIT Technologies, Inc. for a period of one (1) year from date of shipment. EMIT Technologies, Inc. will not be responsible for any defects which result from improper use, neglect, failure to properly maintain or which are attributable to defects, errors or omissions in any drawings, specifications, plans or descriptions, whether written or oral, supplied to EMIT Technologies, Inc. by Buyer.

Catalyst performance using an EMIT Air/Fuel ratio controller is dependent upon properly defined set-points, variable with engine and fuel gas composition. Air/fuel ratio controller performance is guaranteed, but not limited, to fuel gas with an HHV content of 1400 BTU/SCF.

Catalyst performance will be guaranteed for a period of 2 years from installation, or 17,000 operating hours, whichever comes first. The catalyst shall be operated with an automatic air/fuel ratio controller. The performance guarantee shall not cover the effects of excessive ash masking due to operation at low load, improper engine maintenance, or inappropriate lubrication oil. The performance guarantee shall not cover the effects of continuous engine misfires (cylinder or ignition) exposing the catalyst to excessive exothermic reaction temperatures.

Unless otherwise stated the exhaust temperature operating range at the converter inlet is 600°F minimum for oxidation catalyst and 750°F for NSCR catalyst and 1250°F maximum.

If a high temperature shut down switch is not installed, thermal deactivation of catalyst at temperatures above 1300 °F is not covered.

The catalyst conversion efficiencies (% reduction) will be guaranteed for engine loads of 50 to 100 percent.

Engine lubrication oil shall contain less than 0.6% ash (by weight) with a maximum allowable specific oil consumption of 0.01 gal/bhp-hr. The maximum ash loading on the catalyst shall be limited to 350 g/m3. Phosphorous and zinc additives are limited to 0.03% (by weight).

The catalyst must not be exposed to the following known poisoning agents, including: iron, nickel, sodium, chromium, arsenic, zinc, lead, phosphorous, silicon, potassium, magnesium, copper, tin, and mercury. Total poison concentrations in the gas are limited to 0.3 ppm.

Shipment - Promised shipping dates are approximate and are not guaranteed and are from the point of manufacture. EMIT Technologies,Inc. will not be liable for any loss, damage or delay in manufacture or delivery resulting from any cause beyond its control including, but not limited to a period equal to the time lost by reason of that delay. All products will be crated as per best practice to prevent any damage during shipment. Unless otherwise specified, Buyer will pay for any special packing and shipping requirements. Acceptance of goods by common carrier constitutes delivery to Buyer. EMIT Technologies,Inc. shall not be responsible for goods damaged or lost in transit.

PAYMENT TERMS AND ADVANCE PAYMENT REQUIREMENT

Terms: Credit is extended to purchaser for net 30 time period. If payment is not received in the net 30 timeframe, interest on the unpaid balance will accrue at a rate of 1.5% per month from the invoice date.

Advance Payment Requirement: Proposals with a project value of $100,000 or greater, and 60 days or greater time to completion, will require an advance payment of 30% of the total value. The advance payment will be invoiced to the customer upon receipt of the customer's purchase order. Advance payment is due 30 days after the date of the invoice. If payment is not received in the net 30 timeframe, interest on the unpaid balance will accrue at teh rate of 1.5% per month from the invoice date. Failure to pay this invoice may delay completion of the project outlined in this proposal.

Order Cancellation Terms: Upon cancellation of an order once submittal of a Purchase Order has occurred, the customer will pay a 25% restocking fee for Catalyst Housings, Catalyst Elements, and Air/Fuel Ratio Controllers; 50% restocking fee for Cooler Top Solutions,Exhaust System Accessories, and other Custom Built Products; 100% of all associated shipping costs incurred by EMIT; 100% of all project expenses incurred by EMIT for Field Services.

iac acoustics
making the world a quieter place

Emission Control Application Data Sheet

POWERTHERM Co., Inc.

IAC Acoustics
10635 Brighton Lane
Stafford, Texas 77477
Phone: 832 554-0980
Fax: 832 554-0990

Customer: **comp gen svc** Project: **7042gsi** Date: **3/18/2015**

Customer Contact IAC Contact: Order/Quote #: **31815**

Engine Data:

Engine Model:	**Waukesha L7042GSI**		Speed:	**1200**	RPM
Fuel & Operating Type:	**Natural Gas Rich Burn**		Engine Power:	**1478** **1103**	Hp KW
Exhaust Flow Rate:	**9890** **16803** **14816**	**acfm** **m^3/hr** **lbs/hr**	Exhaust Temperature:	**1126** **608**	°F °C

Catalyst Data:

Number of Core layers:	**1**						
Model:	**201V3-4-3-4114-1**				Inlet Size:	**14**	in
Grade:	**Residential**				Outlet Size:	**14**	in
Body Diameter:		in			Body Length:		in
Estimated weight:		lbs Kg			Estimated Back Pressure of the unit:	**10.00** **24.9**	in of WC mbar
Core Part Number:	**3ECI-RE13-154248-300-35-CH1019**		Qty	**3**	Speed through inlet:	**9576**	ft/min
Cell Density	300	cpsi			Back Pressure across Element(s) only	2.36 **5.9**	in of WC mbar

Emission:

Min. Temp. at Core Face: **1112** °F **600** °C
Max. Temp. at Core Face: **1215** °F **657** °C

Catalyst Type: **3-Way**

O_2 in Exhaust vol %
H_2O in Exhaust vol %

	Pollutant					
	NOx	CO	NMHC/VOC	CH_2O/CHCO	ORGANIC PM10	
Engine Out / Pre Emission:	13	9	0.3	0.05	0	g/bhp-hr
	3686.02	**2551.86**	**85.06**	**14.18**	**0.00**	mg/Nm3
Post Emission:	**0.494**	**0.450**	**0.150**	**0.008**	**0.000**	g/bhp-hr
	140.07	**127.59**	**42.53**	**2.13**	**0.00**	mg/Nm3
	96.2	***95.0***	***50.0***	***85.0***	***50.0***	% Reduction
	1.61	1.47	0.49	0.02		lb/hr
	7.05	6.42	2.14	0.11		tons/year operation
	67.3	61.3	20.4	1.0		ppmv
						ppmvd @ 15% O2

8760 hr/year

Acoustics:

Frequency Band (Hz):	31.5	63	125	250	500	1000	2000	4000	8000	
Raw Noise SPL (dB) at 3.28 ft.:	0	0	0	0	0	0	0	0	0	7 dBA
Estimated Attenuation (dB):	10	20	27	29	23	18	17	18	19	No Element
Plus:	10	21	29	31	27	23	23	24	24	One Element Layer
Silenced SPL (dB) at ft.:										

Warranty & Notes:

- **If Pre-Emission levels are not as noted above, contact IAC Acoustics for a re-quote.**
- To achieve Post Emissions levels detailed above, exhaust temperature and Pre-Emission data must be as specified.
- Maximum allowable exhaust temperature at core face is 1350°F.
- If applicable, the engine will require an air/fuel ratio controller to meet above emission levels. For Rich Burn engines λ must be 0.96 - 0.99.
- Catalyst cleaning/regeneration required, if initial backpressure increases by 2" of WC.
- Engine operation to be stable and reproducible.
- QAC is not designed to withstand a backfire, therefore measures should be taken prior to QAC unit to alleviate backfire pressure.
- Maximum lubrication oil consumption rate to be less than 0.0015 lb/bhp/hr.
- Lube oil sulfate ash contents should not exceed 0.5%.
- Phosphorus and/or Zinc should not exceed 5 ppmv in the exhaust stream.
- A high temperature alarm/shutdown to be maintained at downstream of catalyst at 1300°F.
- Fuel not to contain heavy or transition metals such as Pb, Ar, Zn, Cu, Sn, Fe, Ba, Ni, Cr etc.
- Chlorinated or Silicone containing compounds in the exhaust not to exceed 1 ppmv.
- Sulfur compounds in the exhaust gas stream not to exceed 25 ppmv.
- Performance guarantee is voided should the catalyst become masked or de-activated by any contaminant in the exhaust stream.
- Engine to be maintained and operated in accordance within manufacturer's recommended practice.
- Under no condition will IAC Acoustics assume any contingent liabilities.
- Operating manual is available online at www.maximsilencers.com or contact a Maxim sales representative.
- Nomenclature: QAC4-292-8, 4 is grade (Super Critical), 29 is catalyst block size, 2 is no. of catalyst(s) and 8 is flange diameter.
- Organic PM10 are estimate only and not a guarantee because of the variability in fuels and additives which change PM10.
- IAC's standard one year warranty applies.

Rev level: 86

3/18/2015

POWER RATINGS: L7042GSI VHP™ SERIES GAS ENGINE

Model	I.C. Water Inlet Temp.	C.R.	Brake Horsepower (kWb Output) 800 rpm	900 rpm	1000 rpm	1200 rpm
L7042GSI	85° (29°)	8:1	1031 (769)	1160 (865)	1289 (961)	1547 (1154)
	130° (54°)	8:1	987 (736)	1110 (828)	1233 (920)	1480 (1104)

Rating Standard: All models: Ratings are based on ISO 3046/1-1995 with mechanical efficiency of 90% and auxiliary water temperature Tcra (clause 10.1) as specified above limited to ± 10° F (± 5° C). Ratings are also valid for SAE J1349, BS5514, DIN6271 and AP17B-11C standard atmospheric conditions.

ISO Standard Power/Continuous Power Rating: The highest load and speed which can be applied 24 hours a day, seven days a week, 365 days per year except for normal maintenance. It is permissible to operate the engine at up to 10% overload, or maximum load indicated by the intermittent rating, whichever is lower, for two hours in each 24 hour period.

All natural gas engine ratings are based on a fuel of 900 Btu/ft^3 (35.3 MJ/nm^3) SLHV value, with a 91 Waukesha Knock Index®.

For conditions or fuels other than standard, contact the Waukesha Engine Sales Engineering Department.

PERFORMANCE: L7042GSI VHP™ SERIES GAS ENGINE

English 130° F I.C. Water Temperature

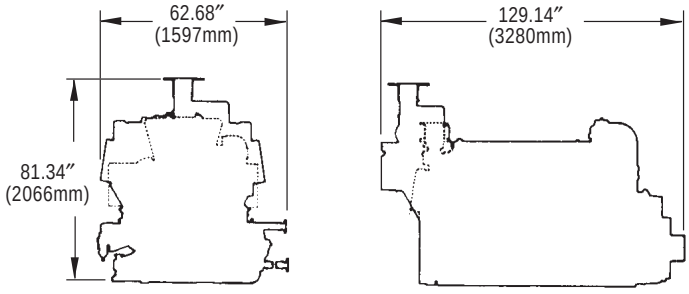
RPM	1200	1000
Power (Bhp)	1480	1233
BSFC (Btu/bhp-hr)	7675	7440
NOx (grams/bhp-hr)	16.0	16.0
CO (grams/bhp-hr)	13.0	13.0
NMHC (grams/bhp-hr)	0.25	0.25

Metric 54° C I.C. Water Temperature

RPM	1200	1000
Power (kWb)	1104	920
BSFC (kJ/kW-hr)	10860	10525
NOx (g/nm^3)	5.9	5.9
CO (g/nm^3)	4.8	4.8
NMHC (g/nm^3)	0.1	0.1

NOTES:

1) Fuel consumption and exhaust emissions are based on ISO 3046/1-1995 standard reference conditions and commercial quality natural gas of 900 Btu/ft^3 (35.38 MJ/m^3 [25, V(0; 101.325)]) saturated lower heat value, Waukesha Knock Index® of 91 and 93% methane content by volume.
ISO 3046/1-1995 standard reference conditions are 77°F (25°C) ambient temperature, 29.54 inches Hg (100 kPa) barometric pressure, 30% relative humidity (1kPa/0.3 inches Hg water vapor pressure).
2) S.I. exhaust emissions are corrected to 5% O_2 (0°C and 101.325 kPa).
3) Data will vary due to variations in site conditions. For conditions and/or fuels other than standard, consult the Waukesha Engine Sales Engineering Department.
4) Fuel consumption bassed on ISO 3046/1-1995 with a +5% tolerance for commercial quality natural gas having a 900 Btu/ft^3 saturated low heat valve



DRESSER
Waukesha

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Bulletin 7011 0905

Consult your local Waukesha Distributor for system application assistance. The manufacturer reserves the right to change or modify without notice, the design or equipment specifications as herein set forth without incurring any obligation either with respect to equipment previously sold or in the process of construction except where otherwise specifically guaranteed by the manufacturer.

Table 3.2-3. UNCONTROLLED EMISSION FACTORS FOR 4-STROKE RICH-BURN ENGINES[a]
(SCC 2-02-002-53)

Pollutant	Emission Factor (lb/MMBtu)[b] (fuel input)	Emission Factor Rating
Criteria Pollutants and Greenhouse Gases		
NO_x[c] 90 - 105% Load	2.21 E+00	A
NO_x[c] <90% Load	2.27 E+00	C
CO[c] 90 - 105% Load	3.72 E+00	A
CO[c] <90% Load	3.51 E+00	C
CO_2[d]	1.10 E+02	A
SO_2[e]	5.88 E-04	A
TOC[f]	3.58 E-01	C
Methane[g]	2.30 E-01	C
VOC[h]	2.96 E-02	C
PM10 (filterable)[i,j]	9.50 E-03	E
PM2.5 (filterable)[j]	9.50 E-03	E
PM Condensable[k]	9.91 E-03	E
Trace Organic Compounds		
1,1,2,2-Tetrachloroethane[l]	2.53 E-05	C
1,1,2-Trichloroethane[l]	<1.53 E-05	E
1,1-Dichloroethane	<1.13 E-05	E
1,2-Dichloroethane	<1.13 E-05	E
1,2-Dichloropropane	<1.30 E-05	E
1,3-Butadiene[l]	6.63 E-04	D
1,3-Dichloropropene[l]	<1.27 E-05	E
Acetaldehyde[l,m]	2.79 E-03	C
Acrolein[l,m]	2.63 E-03	C
Benzene[l]	1.58 E-03	B
Butyr/isobutyraldehyde	4.86 E-05	D
Carbon Tetrachloride[l]	<1.77 E-05	E

Table 3.2-3. UNCONTROLLED EMISSION FACTORS FOR 4-STROKE RICH-BURN ENGINES (Concluded)

Pollutant	Emission Factor (lb/MMBtu)[b] (fuel input)	Emission Factor Rating
Chlorobenzene[l]	<1.29 E-05	E
Chloroform[l]	<1.37 E-05	E
Ethane[n]	7.04 E-02	C
Ethylbenzene[l]	<2.48 E-05	E
Ethylene Dibromide[l]	<2.13 E-05	E
Formaldehyde[l,m]	2.05 E-02	A
Methanol[l]	3.06 E-03	D
Methylene Chloride[l]	4.12 E-05	C
Naphthalene[l]	<9.71 E-05	E
PAH[l]	1.41 E-04	D
Styrene[l]	<1.19 E-05	E
Toluene[l]	5.58 E-04	A
Vinyl Chloride[l]	<7.18 E-06	E
Xylene[l]	1.95 E-04	A

[a] Reference 7. Factors represent uncontrolled levels. For NO_x, CO, and PM-10, "uncontrolled" means no combustion or add-on controls; however, the factor may include turbocharged units. For all other pollutants, "uncontrolled" means no oxidation control; the data set may include units with control techniques used for NOx control, such as PCC and SCR for lean burn engines, and PSC for rich burn engines. Factors are based on large population of engines. Factors are for engines at all loads, except as indicated. SCC = Source Classification Code. TOC = Total Organic Compounds. PM10 = Particulate Matter ≤ 10 microns (μm) aerodynamic diameter. A "<" sign in front of a factor means that the corresponding emission factor is based on one-half of the method detection limit.

[b] Emission factors were calculated in units of (lb/MMBtu) based on procedures in EPA Method 19. To convert from (lb/MMBtu) to (lb/10^6 scf), multiply by the heat content of the fuel. If the heat content is not available, use 1020 Btu/scf. To convert from (lb/MMBtu) to (lb/hp-hr) use the following equation:

$$\text{lb/hp-hr} = (\text{lb/MMBtu})(\text{heat input, MMBtu/hr})(\text{1/operating HP, 1/hp})$$

[c] Emission tests with unreported load conditions were not included in the data set.

[d] Based on 99.5% conversion of the fuel carbon to CO_2. CO_2 [lb/MMBtu] = (3.67)(%CON)(C)(D)(1/h), where %CON = percent conversion of fuel carbon to CO_2,

C = carbon content of fuel by weight (0.75), D = density of fuel, 4.1 E+04 lb/10^6 scf, and h = heating value of natural gas (assume 1020 Btu/scf at 60°F).

[e] Based on 100% conversion of fuel sulfur to SO_2. Assumes sulfur content in natural gas of 2,000 gr/10^6 scf.

[f] Emission factor for TOC is based on measured emission levels from 6 source tests.

[g] Emission factor for methane is determined by subtracting the VOC and ethane emission factors from the TOC emission factor.

[h] VOC emission factor is based on the sum of the emission factors for all speciated organic compounds. Methane and ethane emissions were not measured for this engine category.

[i] No data were available for uncontrolled engines. PM10 emissions are for engines equipped with a PCC.

[j] Considered $\leq$ 1 μm in aerodynamic diameter. Therefore, for filterable PM emissions, PM10(filterable) = PM2.5(filterable).

[k] No data were available for condensable emissions. The presented emission factor reflects emissions from 4SLB engines.

[l] Hazardous Air Pollutant as defined by Section 112(b) of the Clean Air Act.

[m] For rich-burn engines, no interference is suspected in quantifying aldehyde emissions. The presented emission factors are based on FTIR and CARB 430 emissions data measurements.

[n] Ethane emission factor is determined by subtracting the VOC emission factor from the NMHC emission factor.

United States
Environmental Protection
Agency

Office of Air Quality
Planning and Standards
Research Triangle Park NC 27711

EPA-453/R-95-017
November 1995

Air

EPA

Protocol for Equipment Leak Emission Estimates

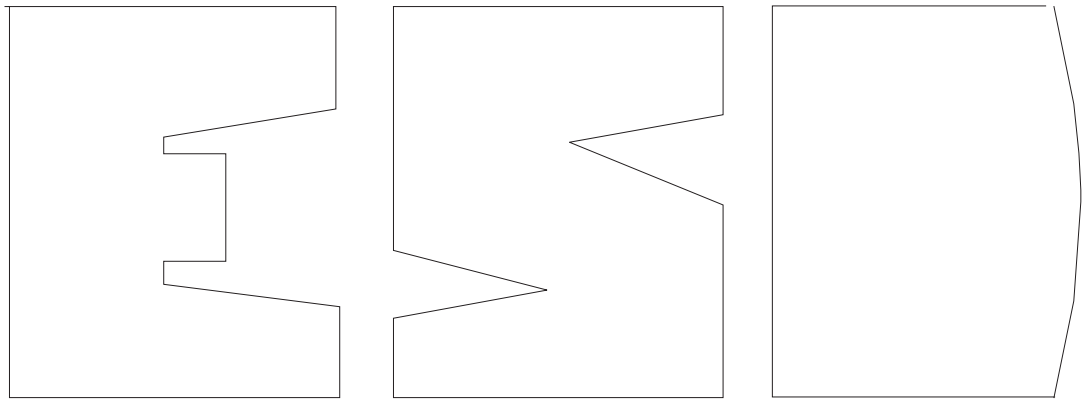


TABLE 2-4. OIL AND GAS PRODUCTION OPERATIONS AVERAGE EMISSION FACTORS (kg/hr/source)

Equipment Type	Service[a]	Emission Factor (kg/hr/source)[b]
Valves	Gas	4.5E-03
	Heavy Oil	8.4E-06
	Light Oil	2.5E-03
	Water/Oil	9.8E-05
Pump seals	Gas	2.4E-03
	Heavy Oil	NA
	Light Oil	1.3E-02
	Water/Oil	2.4E-05
Others[c]	Gas	8.8E-03
	Heavy Oil	3.2E-05
	Light Oil	7.5E-03
	Water/Oil	1.4E-02
Connectors	Gas	2.0E-04
	Heavy Oil	7.5E-06
	Light Oil	2.1E-04
	Water/Oil	1.1E-04
Flanges	Gas	3.9E-04
	Heavy Oil	3.9E-07
	Light Oil	1.1E-04
	Water/Oil	2.9E-06
Open-ended lines	Gas	2.0E-03
	Heavy Oil	1.4E-04
	Light Oil	1.4E-03
	Water/Oil	2.5E-04

[a]Water/Oil emission factors apply to water streams in oil service with a water content greater than 50%, from the point of origin to the point where the water content reaches 99%. For water streams with a water content greater than 99%, the emission rate is considered negligible.

[b]These factors are for total organic compound emission rates (including non-VOC's such as methane and ethane) and apply to light crude, heavy crude, gas plant, gas production, and off shore facilities. "NA" indicates that not enough data were available to develop the indicated emission factor.

[c]The "other" equipment type was derived from compressors, diaphrams, drains, dump arms, hatches, instruments, meters, pressure relief valves, polished rods, relief valves, and vents. This "other" equipment type should be applied for any equipment type other than connectors, flanges, open-ended lines, pumps, or valves.

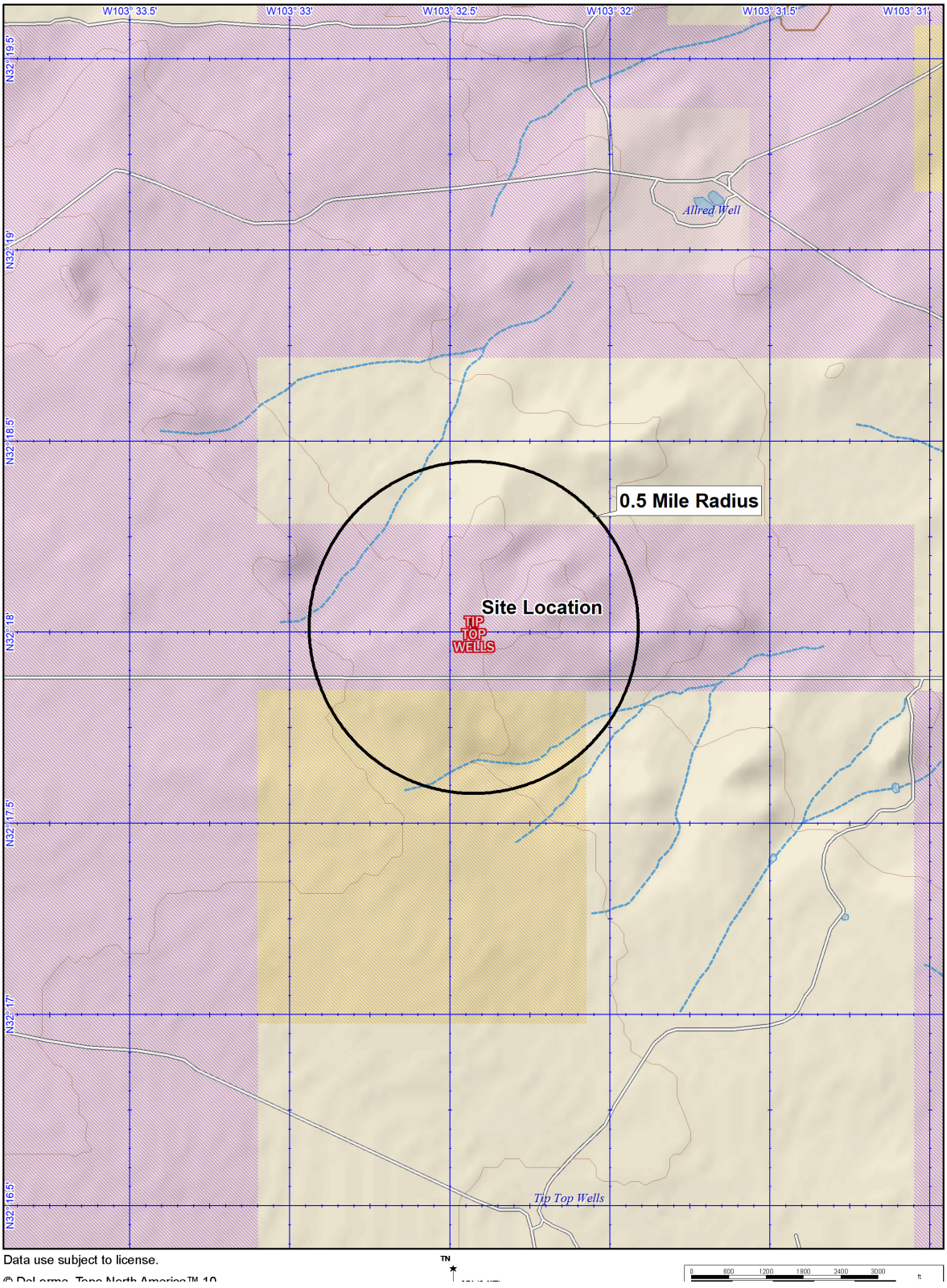
Section 8

Map(s)

A map such as a 7.5 minute topographic quadrangle showing the exact location of the source. The map shall also include the following:

The UTM or Longitudinal coordinate system on both axes	An indicator showing which direction is north
A minimum radius around the plant of 0.8km (0.5 miles)	Access and haul roads
Topographic features of the area	Facility property boundaries
The name of the map	The area which will be restricted to public access
A graphical scale	

An Area map and satellite map are included in this section.



ALTAMIRA

2301 E. LAMAR BLVD.
SUITE 200
ARLINGTON, TX 76006

www.altamira-us.com

FIGURE TITLE
AREA MAP

DOCUMENT TITLE
NSR PERMIT APPLICATION

CLIENT
TARGA MIDSTEAM SERVICES, LLC

LOCATION
BRININSTOOL COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

DATE	10/25/2021
SCALE	AS SHOWN
DESIGNED BY	AD
APPROVED BY	RZ
DRAWN BY	AD
PROJECT NUMBER	
FIGURE NUMBER	**SECTION 8**

Section 9

Proof of Public Notice

(for NSR applications submitting under 20.2.72 or 20.2.74 NMAC)
(This proof is required by: 20.2.72.203.A.14 NMAC "Documentary Proof of applicant's public notice")

☐ **I have read the AQB "Guidelines for Public Notification for Air Quality Permit Applications"**
This document provides detailed instructions about public notice requirements for various permitting actions. It also provides public notice examples and certification forms. Material mistakes in the public notice will require a re-notice before issuance of the permit.

Unless otherwise allowed elsewhere in this document, the following items document proof of the applicant's Public Notification. Please include this page in your proof of public notice submittal with checkmarks indicating which documents are being submitted with the application.

New Permit and **Significant Permit Revision** public notices must include all items in this list.

Technical Revision public notices require only items 1, 5, 9, and 10.

Per the Guidelines for Public Notification document mentioned above, include:

1. ☒ A copy of the certified letter receipts with post marks (20.2.72.203.B NMAC)
2. ☒ A list of the places where the public notice has been posted in at least four publicly accessible and conspicuous places, including the proposed or existing facility entrance. (e.g: post office, library, grocery, etc.)
3. ☒ A copy of the property tax record (20.2.72.203.B NMAC).
4. ☒ A sample of the letters sent to the owners of record.
5. ☒ A sample of the letters sent to counties, municipalities, and Indian tribes.
6. ☒ A sample of the public notice posted and a verification of the local postings.
7. ☒ A table of the noticed citizens, counties, municipalities and tribes and to whom the notices were sent in each group.
8. ☒ A copy of the public service announcement (PSA) sent to a local radio station and documentary proof of submittal.
9. ☒ A copy of the classified or legal ad including the page header (date and newspaper title) or its affidavit of publication stating the ad date, and a copy of the ad. When appropriate, this ad shall be printed in both English and Spanish.
10. ☒ A copy of the display ad including the page header (date and newspaper title) or its affidavit of publication stating the ad date, and a copy of the ad. When appropriate, this ad shall be printed in both English and Spanish.
11. ☒ A map with a graphic scale showing the facility boundary and the surrounding area in which owners of record were notified by mail. This is necessary for verification that the correct facility boundary was used in determining distance for notifying land owners of record.

NOTICE OF AIR QUALITY PERMIT APPLICATION

Targa Midstream Services, LLC announces its application submittal to the New Mexico Environment Department for an air quality permit for its compressor station. The expected date of application submittal to the Air Quality Bureau is November 5, 2021.

The exact location for the facility, known as Brininstool Compressor Station, is at latitude 32 deg, 18 min, 0.82 sec and longitude -103 deg, 32 min, 25.53 sec. The approximate location of this facility is 23.6 miles southwest of Eunice in Lea County. From Eunice, travel south on NM-207 S/Main St. Turn right onto Delaware Basin Rd. after 26.5 miles. After 1.7 miles the facility will be on the right.

The proposed construction consists of adding three compressor engines to the existing facility. Ten compressor engines currently operate at the facility.

The estimated maximum quantities of any regulated air contaminants will be as follows in pound per hour (pph) and tons per year (tpy). These reported emissions could change slightly during the course of the Department's review:

Pollutant:	Pounds per hour	Tons per year
Particulate Matter (PM)	2.8	12.2
PM_{10}	2.8	12.2
$PM_{2.5}$	2.8	12.2
Sulfur Dioxide (SO_2)	1.8	2.5
Nitrogen Oxides (NO_x)	27.4	117.9
Carbon Monoxide (CO)	26.1	104.7
Volatile Organic Compounds (VOC)	16.6	83.8
Total sum of all Hazardous Air Pollutants (HAPs)	2.1	12.5
Green House Gas Emission as Total CO_2e	n/a	79,360

The standard and maximum operating schedules of the facility will be 24 hours per day, 7 days a week and a maximum of 52 weeks per year.

The owner/operator of the Facility is: Targa Midstream Services, LLC, Box 1909, Eunice, NM 88231.

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816; (505) 476-4300; 1 800 224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Other comments and questions may be submitted verbally.

Please refer to the company name and site name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

General information about air quality and the permitting process can be found at the Air Quality Bureau's web site. The regulation dealing with public participation in the permit review process is 20.2.72.206 NMAC. This regulation can be found in the "Permits" section of this web site.

Attención
Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-476-5557.

Notice of Non-Discrimination
NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMED program or activity, you may contact: Kathryn Becker, Non-Discrimination Coordinator, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502,

(505) 827-2855, nd.coordinator@state.nm.us. You may also visit our website at https://www.env.nm.gov/non-employee-discrimination-complaint-page/ to learn how and where to file a complaint of discrimination.

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
November 03, 2021
and ending with the issue dated
November 03, 2021.

Publisher

Sworn and subscribed to before me this
3rd day of November 2021.

Business Manager

My commission expires
January 29, 2023
(Seal)

OFFICIAL SEAL
GUSSIE BLACK
Notary Public
State of New Mexico
My Commission Expires 1-29-23

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGAL NOTICE
November 3, 2021

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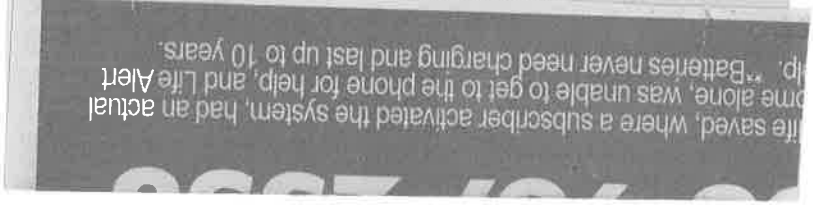

67111991 00260160

ATTN: RITA ZEBIAN
ALTAMIRA
2301 LAMAR BLVD, STE 200
ARLINGTON, TX 76006

Affidavit of Publication

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COUNTY OF LEA

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67111991 00260163

ATTN: RITA ZEBIAN
ALTAMIRA
2301 LAMAR BLVD, STE 200
ARLINGTON, TX 76006

General Posting of Notices – Certification

I, Rebecca Woodell, the undersigned, certify that on 11·3·2021, posted a true and correct copy of the attached Public Notice in the following publicly accessible and conspicuous places in Eunice of Lea County, State of New Mexico on the following dates:

1. Targa Midstream Services, LLC
   Brininstool Compressor Station
   DATE: 11·3·2021
2. Lowe's Pay-N-Save
   1326 Ave. J
   Eunice, NM 88231
   DATE: 11·3·2021
3. Eunice City Hall
   1106 Avenue J
   Eunice, NM 88231
   DATE: 11·3·2021
4. US Post Office
   1201 Avenue K.
   Eunice, NM 88231
   DATE: 11·3·2021

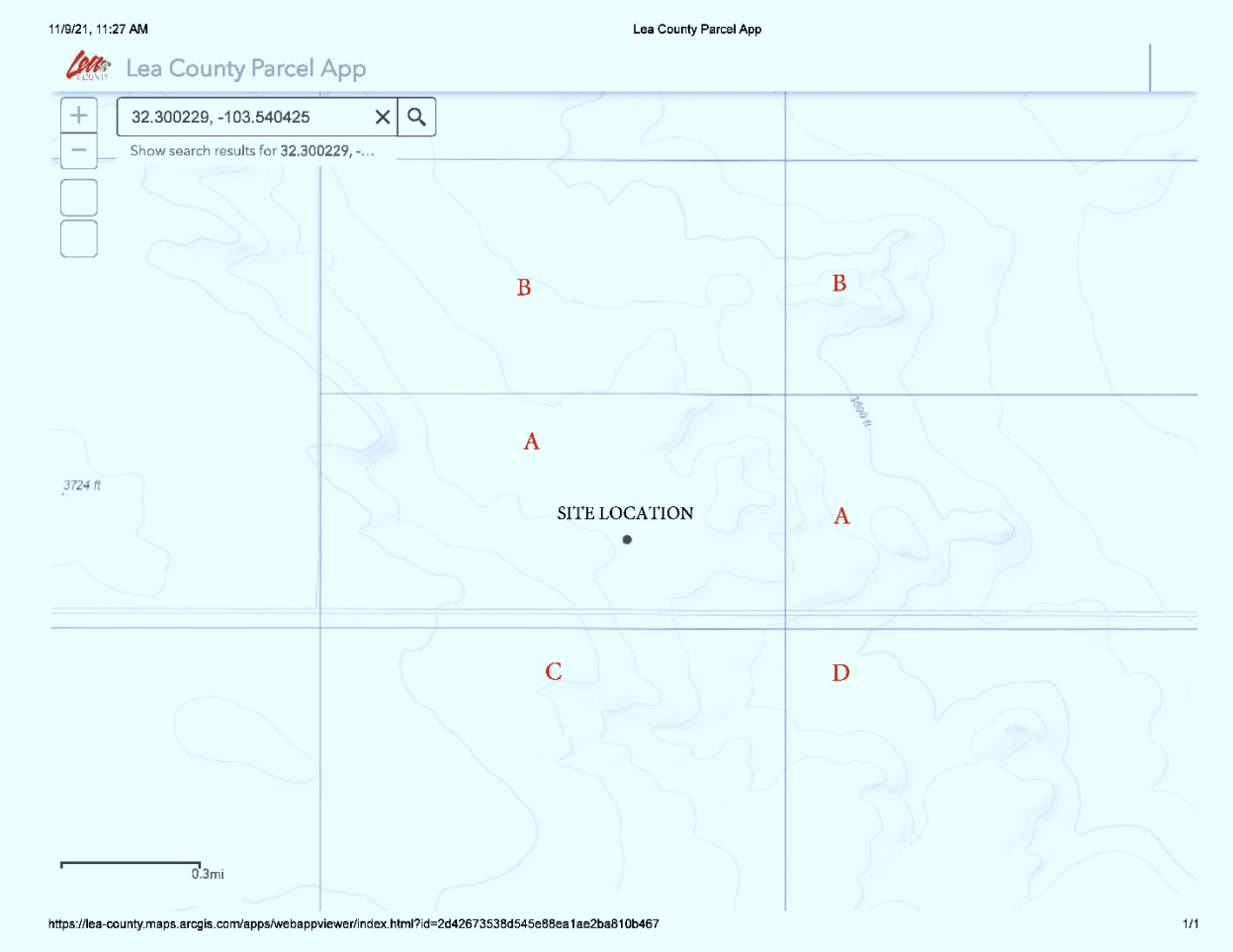
Signed this 3rd day of November, 2021.

Rebecca Woodell
Signature

11·3·2021
Date

Rebecca Woodell
Printed Name

ES&H Specialist
Title {APPLICANT OR RELATIONSHIP TO APPLICANT}



Landowners:

A – State Trust

B – Limestone Basin Prop Ranch LLC

C – BLM

D – Hughes Properties LLC

7014 2120 0001 5758 9563

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

Postage	$ .53
Certified Fee	3.75
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$ 4.28

Postmark Here
CENTER CITY OKLAHOMA CITY OK 73102
NOV - 3 2021
USPS

Sent To
Brininstool XL Ranch LLC
Street & Apt. No., or PO Box No.
PO Box 940
City, State, ZIP+4
Jal, NM 88260

PS Form 3800, July 2014 — See Reverse for Instructions

7014 2120 0001 5758 9549

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Postage	$ .53
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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$ 4.28

Postmark Here
CENTER CITY OKLAHOMA CITY OK 73102
NOV - 3 2021
USPS

Sent To
Lea County New Mexico
Keith Manes, Lea County Clerk
Street & Apt. No., or PO Box No.
100 N. Main Avenue, Suite 1C
City, State, ZIP+4
Lovington, NM 88260

PS Form 3800, July 2014 — See Reverse for Instructions

7014 2120 0001 5758 9556

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
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Postage	$ .53
Certified Fee	3.75
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$ 4.28

Postmark Here
CENTER CITY OKLAHOMA CITY OK 73102
NOV - 3 2021
USPS

Sent To
City of Eunice
Candelaria Brito, City Clerk
Street & Apt. No., or PO Box No.
107 Avenue J
City, State, ZIP+4
Eunice, NM 88231

PS Form 3800, July 2014 — See Reverse for Instructions

7011 0470 0000 4143 2983

U.S. Postal Service™
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Postage	$ .53
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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$ 4.28

Postmark Here
CENTER CITY OKLAHOMA CITY OK 73102
NOV - 3 2021
USPS

Sent To
New Mexico State Land Officer
Oil, Gas and Minerals Division
Allison Marks, Director
Street & Apt. No., or PO Box No.
310 Old Santa Fe Trail
City, State, ZIP+4
Santa Fe, NM 87501

PS Form 3800, August 2006 — See Reverse for Instructions

7014 2120 0001 5758 9570

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

Postage	$ .53
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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$ 4.28

Postmark Here
CENTER CITY OKLAHOMA CITY OK 73102
NOV - 3 2021
USPS

Sent To
Bureau of Land Management
New Mexico State Office
Attention: Deputy State Director, Minerals
Street & Apt. No., or PO Box No.
301 Dinosaur Trail
City, State, ZIP+4
Santa Fe, NM 87508

PS Form 3800, July 2014 — See Reverse for Instructions

7014 2120 0001 5758 9617

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

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Livestock Basin Prop Ranch LLC
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PO Box 5677
City, State, ZIP+4
Abilene TX 79608

PS Form 3800, July 2014 — See Reverse for Instructions

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CENTER CITY OKLAHOMA CITY OK 73102
Postmark Here
NOV - 9 2021
USPS

Sent To
Hughes Properties LLC
Street and Apt. No., or PO Box No.
PO Box 1599
City, State, ZIP+4
Carlsbad NM 88221

PS Form 3800, July 2014 — See Reverse for Instructions

November 3, 2021

Bureau of Land Management
New Mexico State Office
Al Elser, Deputy State Director, Minerals
301 Dinosaur Trail
Santa Fe, NM 87508
(505) 954-2010

Certified Mail 7014 2120 0001 5758 9570

Dear Mr. Elser,

Targa Midstream Services, LLC announces its application submittal to the New Mexico Environment Department for an air quality permit for its compressor station. The expected date of application submittal to the Air Quality Bureau is November 5, 2021.

The exact location for the facility, known as Brininstool Compressor Station, is at latitude 32 deg, 18 min, 0.82 sec and longitude -103 deg, 32 min, 25.53 sec. The approximate location of this facility is 23.6 miles southwest of Eunice in Lea County. From Eunice, travel south on NM-207 S/Main St. Turn right onto Delaware Basin Rd. after 26.5 miles. After 1.7 miles the facility will be on the right.

The proposed construction consists of adding three compressor engines to the existing facility. Ten compressor engines currently operate at the facility.

The estimated maximum quantities of any regulated air contaminants will be as follows in pound per hour (pph) and tons per year (tpy). These reported emissions could change slightly during the course of the Department's review:

Pollutant:	Pounds per hour	Tons per year
Particulate Matter (PM)	2.8	12.2
PM_{10}	2.8	12.2
$PM_{2.5}$	2.8	12.2
Sulfur Dioxide (SO_2)	1.8	2.5
Nitrogen Oxides (NO_x)	27.4	117.9
Carbon Monoxide (CO)	26.1	104.7
Volatile Organic Compounds (VOC)	16.6	83.8
Total sum of all Hazardous Air Pollutants (HAPs)	2.1	12.5
Green House Gas Emission as Total CO_2e	n/a	79,360

The standard and maximum operating schedules of the facility will be 24 hours per day, 7 days a week and a maximum of 52 weeks per year.

The owner/operator of the Facility is: Targa Midstream Services, LLC, Box 1909, Eunice, NM 88231.

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816; (505) 476-4300; 1 800 224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Other comments and questions may be submitted verbally.

Please refer to the company name and site name or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

General information about air quality and the permitting process can be found at the Air Quality Bureau's web site. The regulation dealing with public participation in the permit review process is 20.2.72.206 NMAC. This regulation can be found in the "Permits" section of this web site.

Attención
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Sincerely,
Altamira-US, LLC

Rita Zebian
Senior Project Manager

Notice of Non-Discrimination
NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMED program or activity, you may contact: Kathryn Becker, Non-Discrimination Coordinator, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@state.nm.us. You may also visit our website at https://www.env.nm.gov/non-employee-discrimination-complaint-page/ to learn how and where to file a complaint of discrimination.

November 3, 2021

Brininstool XL Ranch LLC
PO Box 940
Jal, NM 88260

Certified Mail 7014 2120 0001 5758 9563

To Whom it May Concern,

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Rita Zebian

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November 3, 2021

City of Eunice
Candelaria Brito, City Clerk
1107 Avenue J
Eunice, NM 88231
(575) 394-2576

Certified Mail 7014 2120 0001 5758 9556

Dear Ms. Brito,

Targa Midstream Services, LLC announces its application submittal to the New Mexico Environment Department for an air quality permit for its compressor station. The expected date of application submittal to the Air Quality Bureau is November 5, 2021.

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Sincerely,
Altamira-US, LLC

Rita Zebian

Rita Zebian
Senior Project Manager

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November 3, 2021

Lea County New Mexico
Keith Manes, Lea County Clerk
100 N. Main Avenue, Suite 1C
Lovington, NM 88260
(575) 396-8619

Certified Mail 7014 2120 0001 5758 9549

Dear Mr. Manes,

Targa Midstream Services, LLC announces its application submittal to the New Mexico Environment Department for an air quality permit for its compressor station. The expected date of application submittal to the Air Quality Bureau is November 5, 2021.

The exact location for the facility, known as Brininstool Compressor Station, is at latitude 32 deg, 18 min, 0.82 sec and longitude -103 deg, 32 min, 25.53 sec. The approximate location of this facility is 23.6 miles southwest of Eunice in Lea County. From Eunice, travel south on NM-207 S/Main St. Turn right onto Delaware Basin Rd. after 26.5 miles. After 1.7 miles the facility will be on the right.

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Sincerely,
Altamira-US, LLC

Rita Zebian

Rita Zebian
Senior Project Manager

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November 3, 2021

New Mexico State Land Officer
Oil, Gas and Minerals Division
Allison Marks, Director
310 Old Santa Fe Trail
Santa Fe, NM 87501
(505) 827-5745

Certified Mail 7011 0470 0000 4143 2983

Dear Ms. Marks,

Targa Midstream Services, LLC announces its application submittal to the New Mexico Environment Department for an air quality permit for its compressor station. The expected date of application submittal to the Air Quality Bureau is November 5, 2021.

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Rita Zebian
Senior Project Manager

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November 9, 2021

Hughes Properties LLC
PO Box 1599
Carlsbad, NM 88221

Certified Mail #7014 2120 0001 5758 9624

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November 9, 2021

Livestock Basin Prop Ranch LLC
PO Box 5677
Abilene, TX 79608

Certified Mail 7014 2120 0001 5758 9617

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PM_{10}	2.8	12.2
$PM_{2.5}$	2.8	12.2
Sulfur Dioxide (SO_2)	1.8	2.5
Nitrogen Oxides (NO_x)	27.4	117.9
Carbon Monoxide (CO)	26.1	104.7
Volatile Organic Compounds (VOC)	16.6	83.8
Total sum of all Hazardous Air Pollutants (HAPs)	2.1	12.5
Green House Gas Emission as Total CO_2e	n/a	79,360

The standard and maximum operating schedules of the facility will be 24 hours per day, 7 days a week and a maximum of 52 weeks per year.

The owner/operator of the Facility is: Targa Midstream Services, LLC, Box 1909, Eunice, NM 88231.

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in

writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816; (505) 476-4300; 1 800 224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Other comments and questions may be submitted verbally.

Please refer to the company name and site name or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

General information about air quality and the permitting process can be found at the Air Quality Bureau's web site. The regulation dealing with public participation in the permit review process is 20.2.72.206 NMAC. This regulation can be found in the "Permits" section of this web site.

Attención
Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-476-5557.

Sincerely,
Altamira-US, LLC

Rita Zebian

Rita Zebian
Senior Project Manager

Notice of Non-Discrimination
NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMED program or activity, you may contact: Kathryn Becker, Non-Discrimination Coordinator, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@state.nm.us. You may also visit our website at https://www.env.nm.gov/non-employee-discrimination-complaint-page/ to learn how and where to file a complaint of discrimination.

Submittal of Public Service Announcement – Certification

I, Angie Dawson, the undersigned, certify that on November 1, 2021, submitted a public service announcement to KZOR Radio that serves the City\Town\Village of **Hobbs**, **Lea** County, New Mexico, in which the source is located and that KZOR (Aaron Forrister) **RESPONDED THAT IT WOULD AIR THE ANNOUNCEMENT.**

Signed this 4 day of November, 2021,

A. Dawson

Signature

11/4/2021

Date

Angie Dawson

Printed Name

Consultant

Title {APPLICANT OR RELATIONSHIP TO APPLICANT}

PUBLIC SERVICE ANNOUNCEMENT

Targa Midstream, LLC announces its application to the New Mexico Environment Department for an air quality permit to add three compressor engines to its existing Brininstool Compressor Station. This notice is a requirement according to New Mexico air quality regulations.

The exact location for the facility is at latitude 32 deg, 18 min, 0.82 sec and longitude -103 deg, 32 min, 25.53 sec. The approximate location of this facility is 23.6 miles SW of Eunice in Lea County.

The operator of the Facility is: Targa Midstream Services, LLC, Box 1909, Eunice, NM 88231.

Notices were posted at the site and the following locations:

Lowe's Pay-N-Save
1326 Avenue J
Eunice

Eunice City Hall
1106 Avenue J
Eunice

US Post Office
1201 Avenue K
Eunice

The address for submitting comments to the New Mexico Environment Department is as follows:

New Mexico Environment Department
Air Quality Bureau – Permits Section
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico 87505
(505) 476-4300

Angie Dawson

From: aaron <aaron@1radiosquare.com>
Sent: Thursday, November 4, 2021 4:35 PM
To: Angie Dawson
Subject: RE: Public Service Announcement Needed

Hi Angie,

Thank you. This will air Saturday November 6th on KZOR FM.

Aaron Forrister, CRMC
New Mexico Market Manager
KZOR-KIXN-KPZA-KEJL-KLEA-KBIM-KKBE
575-318-7217 mobile
575-397-4969 office
575-393-4310 fax
619 North Turner
Hobbs, NM 88240

From: Angie Dawson <Angie.Dawson@Altamira-us.com>
Sent: Thursday, November 04, 2021 3:16 PM
To: Aaron Forrister <aaron@1radiosquare.com>
Cc: Rita Zebian <Rita.Zebian@Altamira-us.com>; Laura Worthen Lodes <laura.worthen-lodes@altamira-us.com>
Subject: Public Service Announcement Needed

Hi Aaron,
Attached please find a copy of the PSA that we need aired and the credit card form. Please let me know the date that this will air, as it is needed for our submission. Thanks!

Angie Dawson
Air Quality Technician | 405-702-1619 | altamira-us.com

From: aaron aaron@1radiosquare.com
Sent: Monday, October 25, 2021 8:22 AM

To: Angie Dawson Angie.Dawson@Altamira-us.com
Subject: RE: Public Service Announcement Needed

Hi Angie,

Yes, it is. We can run it tomorrow on KZOR. There is a $75 plus tax charge for this announcement.

Total comes to: $80.11

I have attached a credit card form. Please fill out the attached and email back to me. Thank you!

Aaron Forrister, CRMC
New Mexico Market Manager
KZOR-KIXN-KPZA-KEJL-KLEA-KBIM-KKBE
575-318-7217 mobile
575-397-4969 office
575-393-4310 fax
619 North Turner
Hobbs, NM 88240

From: Angie Dawson <Angie.Dawson@Altamira-us.com>
Sent: Friday, October 22, 2021 11:12 AM
To: 'Aaron Forrister' <aaron@1radiosquare.com>
Cc: Rita Zebian <Rita.Zebian@Altamira-us.com>
Subject: Public Service Announcement Needed

Aaron,
My company is going to submit a Air Permit application for our client. The application requires a public service announcement on a radio station that services the Lea county area. We are looking at having the announcement run one time early next week. Is this something that you can help me with?

Angie Dawson
Air Quality Technician | 405-702-1619 | altamira-us.com
525 Central Park Dr., Suite 500
Oklahoma City, OK 73105

Section 10

Written Description of the Routine Operations of the Facility

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A written description of the routine operations of the facility. Include a description of how each piece of equipment will be operated, how controls will be used, and the fate of both the products and waste generated. For modifications and/or revisions, explain how the changes will affect the existing process. In a separate paragraph describe the major process bottlenecks that limit production. The purpose of this description is to provide sufficient information about plant operations for the permit writer to determine appropriate emission sources.

The purpose of the Brininstool Compressor Station is to help move natural gas from the gathering system to a gas processing plant. The site operates natural gas-fired engines (units C-01 to C-13) to power reciprocating compressors (units RC-01 to RC-13). The compressors raise the discharge pressure of the gas in the pipeline to overcome the effect of frictional losses in the pipeline upstream of the station or from pressure losses/changes within the facility in order to maintain the required suction pressure at the next downstream facility. The volume of gas flowing and the amount of subsequent frictional losses in the pipeline are dependent on field conditions and downstream plant conditions causing pressure variations.

Prior to compression, the inlet natural gas is passed through inlet scrubbers/3-phase separator units to remove hydrocarbon condensates and water from the incoming gas. Water is stored on-site in a produced water tank (unit TK-6) and hydrocarbon condensates are re-injected into the pipeline for separation at another facility further downstream.

The facility stores water and various products used to maintain the equipment and normal operations. Tanks at the facility include a methanol tank (unit TK-1), a lube oil tank (unit TK-4), an antifreeze tank (unit TK-5), and a water tank (unit TK-7).

No condensate tanks are located at the facility. All condensate is re-injected into the pipeline for separation at another facility further downstream.

Additional emissions result from facility-wide fugitives (unit FUG), venting during Startup, Shutdown, and Maintenance (SSM) (unit Vent SSM), and Malfunction emissions (unit M).

Section 11
Source Determination

Source submitting under 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC

Sources applying for a construction permit, PSD permit, or operating permit shall evaluate surrounding and/or associated sources (including those sources directly connected to this source for business reasons) and complete this section. Responses to the following questions shall be consistent with the Air Quality Bureau's permitting guidance, Single Source Determination Guidance, which may be found on the Applications Page in the Permitting Section of the Air Quality Bureau website.

Typically, buildings, structures, installations, or facilities that have the same SIC code, that are under common ownership or control, and that are contiguous or adjacent constitute a single stationary source for 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC applicability purposes. Submission of your analysis of these factors in support of the responses below is optional, unless requested by NMED.

A. Identify the emission sources evaluated in this section (list and describe)**:**
See Table 2-A in Section 2 of this application

B. Apply the 3 criteria for determining a single source:

SIC Code: Surrounding or associated sources belong to the same 2-digit industrial grouping (2-digit SIC code) as this facility, OR surrounding or associated sources that belong to different 2-digit SIC codes are support facilities for this source.

☒ **Yes** ☐ **No**

Common Ownership or Control: Surrounding or associated sources are under common ownership or control as this source.

☒ **Yes** ☐ **No**

Contiguous or Adjacent: Surrounding or associated sources are contiguous or adjacent with this source.

☒ **Yes** ☐ **No**

C. Make a determination:

☒ The source, as described in this application, constitutes the entire source for 20.2.70, 20.2.72, 20.2.73, or 20.2.74 NMAC applicability purposes. If in "A" above you evaluated only the source that is the subject of this application, all "**YES**" boxes should be checked. If in "A" above you evaluated other sources as well, you must check **AT LEAST ONE** of the boxes "**NO**" to conclude that the source, as described in the application, is the entire source for 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC applicability purposes.

☐ The source, as described in this application, **does not** constitute the entire source for 20.2.70, 20.2.72, 20.2.73, or 20.2.74 NMAC applicability purposes (A permit may be issued for a portion of a source). The entire source consists of the following facilities or emissions sources (list and describe):

Section 12

Section 12.A
PSD Applicability Determination for All Sources

(Submitting under 20.2.72, 20.2.74 NMAC)

A PSD applicability determination for all sources. For sources applying for a significant permit revision, apply the applicable requirements of 20.2.74.AG and 20.2.74.200 NMAC and to determine whether this facility is a major or minor PSD source, and whether this modification is a major or a minor PSD modification. It may be helpful to refer to the procedures for Determining the Net Emissions Change at a Source as specified by Table A-5 (Page A.45) of the EPA New Source Review Workshop Manual to determine if the revision is subject to PSD review.

A. This facility is:

- ☒ **a minor PSD source before and after this modification (if so, delete C and D below).**
- ☐ **a major PSD source before this modification. This modification will make this a PSD minor source.**
- ☐ **an existing PSD Major Source that has never had a major modification requiring a BACT analysis.**
- ☐ **an existing PSD Major Source that has had a major modification requiring a BACT analysis**
- ☐ **a new PSD Major Source after this modification.**

B. **This facility not one of the listed 20.2.74.501 Table I – PSD Source Categories.**

Section 13

Determination of State & Federal Air Quality Regulations

This section lists each state and federal air quality regulation that may apply to your facility and/or equipment that are stationary sources of regulated air pollutants.

Not all state and federal air quality regulations are included in this list. Go to the Code of Federal Regulations (CFR) or to the Air Quality Bureau's regulation page to see the full set of air quality regulations.

Required Information for Specific Equipment:
For regulations that apply to specific source types, in the 'Justification' column **provide any information needed to determine if the regulation does or does not apply**. **For example**, to determine if emissions standards at 40 CFR 60, Subpart IIII apply to your three identical stationary engines, we need to know the construction date as defined in that regulation; the manufacturer date; the date of reconstruction or modification, if any; if they are or are not fire pump engines; if they are or are not emergency engines as defined in that regulation; their site ratings; and the cylinder displacement.

Required Information for Regulations that Apply to the Entire Facility:
See instructions in the 'Justification' column for the information that is needed to determine if an 'Entire Facility' type of regulation applies (e.g. 20.2.70 or 20.2.73 NMAC).

Regulatory Citations for Regulations That Do Not, but Could Apply:
If there is a state or federal air quality regulation that does not apply, but you have a piece of equipment in a source category for which a regulation has been promulgated, you must **provide the low level regulatory citation showing why your piece of equipment is not subject to or exempt from the regulation. For example** if you have a stationary internal combustion engine that is not subject to 40 CFR 63, Subpart ZZZZ because it is an existing 2 stroke lean burn stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, your citation would be 40 CFR 63.6590(b)(3)(i). **We don't want a discussion of every non-applicable regulation, but if it is possible a regulation could apply, explain why it does not. For example,** if your facility is a power plant, you do not need to include a citation to show that 40 CFR 60, Subpart OOO does not apply to your non-existent rock crusher.

Regulatory Citations for Emission Standards:
For each unit that is subject to an emission standard in a source specific regulation, such as 40 CFR 60, Subpart OOO or 40 CFR 63, Subpart HH, include the low level regulatory citation of that emission standard. Emission standards can be numerical emission limits, work practice standards, or other requirements such as maintenance. **Here are examples:** a glycol dehydrator is subject to the general standards at 63.764C(1)(i) through (iii); an engine is subject to 63.6601, Tables 2a and 2b; a crusher is subject to 60.672(b), Table 3 and all transfer points are subject to 60.672(e)(1)

Federally Enforceable Conditions:
All federal regulations are federally enforceable. All Air Quality Bureau State regulations are federally enforceable except for the following: affirmative defense portions at 20.2.7.6.B, 20.2.7.110(B)(15), 20.2.7.11 through 20.2.7.113, 20.2.7.115, and 20.2.7.116; 20.2.37; 20.2.42; 20.2.43; 20.2.62; 20.2.63; 20.2.86; 20.2.89; and 20.2.90 NMAC. Federally enforceable means that EPA can enforce the regulation as well as the Air Quality Bureau and federally enforceable regulations can count toward determining a facility's potential to emit (PTE) for the Title V, PSD, and nonattainment permit regulations.

INCLUDE ANY OTHER INFORMATION NEEDED TO COMPLETE AN APPLICABILITY DETERMINATION OR THAT IS RELEVENT TO YOUR FACILITY'S NOTICE OF INTENT OR PERMIT.

EPA Applicability Determination Index for 40 CFR 60, 61, 63, etc: http://cfpub.epa.gov/adi/

To save paper and to standardize the application format, delete this sentence, and begin your submittal for this attachment on this page.

Example of a Table for STATE REGULATIONS:

STATE REGU-LATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
20.2.1 NMAC	General Provisions	Yes	Facility	General Provisions apply to Notice of Intent, Construction, and Title V permit applications.
20.2.3 NMAC	Ambient Air Quality Standards NMAAQS	Yes	Facility	The air pollutants subject to 20.2.3 NMAC are present at the facility and are thus subject to these requirements.
20.2.7 NMAC	Excess Emissions	Yes	Facility	Per 20.2.7.108(A)(2), this ruling is applicable. The facility will comply with excess emission notifications and corrective action implementations as required.
20.2.23 NMAC	Fugitive Dust Control	No	Facility	The facility is not located in Doña Ana or Luna Counties, and is therefore not subject to 40 CFR §51.930 or 20.2.23 NMAC.
20.2.33 NMAC	Gas Burning Equipment - Nitrogen Dioxide	No	N/A	This facility does not have existing gas burning equipment having a heat input of greater than 1,000,000 million British Thermal Units per year per unit. The facility is not subject to this regulation and does not have emission sources that meet the applicability requirements under 20.2.33.108 NMAC.
20.2.34 NMAC	Oil Burning Equipment: NO_2	No	N/A	This Facility does not have existing oil burning equipment having a heat input of greater than 1,000,000 million British Thermal Units per year per unit. The facility is not subject to this regulation and does not have emission sources that meet the applicability requirements under 20.2.34.108 NMAC.
20.2.35 NMAC	Natural Gas Processing Plant – Sulfur	No	N/A	The purpose of this regulation is to establish sulfur emissions standards for natural gas process plants [20.2.35.6 NMAC]. This facility is not a natural gas processing plant as defined in the regulation [20.2.35.7 NMAC]. As this facility is not defined as a natural gas processing plant under this regulation, the facility is not subject to this regulation.
20.2.37 and 20.2.36 NMAC	Petroleum Processing Facilities and Petroleum Refineries	N/A	N/A	**These regulations were repealed by the Environmental Improvement Board. If you had equipment subject to 20.2.37 NMAC before the repeal, your combustion emission sources are now subject to 20.2.61 NMAC.**
20.2.38 NMAC	Hydrocarbon Storage Facility	No	N/A	The purpose of this regulation is to minimize hydrogen sulfide emissions from hydrocarbon storage facilities. Hydrocarbon condensate liquids are separated from the gas stream at the inlet separator and leave the facility via pipeline; hydrocarbon liquids are not stored at this facility. This regulation does not apply.
20.2.39 NMAC	Sulfur Recovery Plant - Sulfur	No	N/A	This regulation establishes sulfur emission standards for sulfur recovery plants. Since there is not a sulfur recovery plant at this facility, this regulation does not apply to the facility.
20.2.61.109 NMAC	Smoke & Visible Emissions	Yes	C-01 through C-13, F-01	The compressor engines and flare are Stationary Combustion Equipment. Targa will maintain compliance with the regulation by operating the combustion units according to manufacturer's recommendations to ensure complete combustion.
20.2.70 NMAC	Operating Permits	Yes	Facility	This regulation establishes requirements for obtaining an operating permit. Emissions from of CO and NOx are greater than 100 tpy. The facility is subject to this regulation.
20.2.71 NMAC	Operating Permit Fees	Yes	Facility	This regulation established a schedule of operating permit emission fees. The facility is subject to 20.2.70 NMAC and is therefore subject to requirements of this regulation.
20.2.72 NMAC	Construction Permits	Yes	Facility	The objective of this part is to establish the requirements for obtaining a construction permit. The facility is subject as emissions are greater than 10 lb/hr and 25 tpy of regulated air contaminants for which there are National or New Mexico Ambient Air Quality Standards.

STATE REGU-LATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
20.2.73 NMAC	NOI & Emissions Inventory Requirements	Yes	Facility	The regulation establishes emission inventory emission. The facility meets the applicability requirements of 20.2.73.300.A.1 NMAC.
20.2.74 NMAC	Permits – Prevention of Significant Deterioration (PSD)	No	Facility	The site is not a PSD major source.
20.2.75 NMAC	Construction Permit Fees	Yes	Facility	This regulation establishes a schedule of construction permit emission fees. The facility is subject to 20.2.72 NMAC and is therefore subject to requirements of this regulation.
20.2.77 NMAC	New Source Performance	Yes	FUG, C-06, C-07, C-11, C-12, C-13, RC-07, GEN	The purpose of this regulation is to establish state authority to implement new source performance standards for stationary sources in New Mexico subject to 40 CFR Part 60. This regulation applies as 40 CFR 60 Subpart JJJJ applies to C-06, C-07, C-11 to C-13, and GEN, and NSPS OOOOa applies to FUG and RC-07. NSPS OOOOa, NSPS JJJJ nor NSPS OOOO will not apply to reciprocating compressor associated with engines C-06 as it was manufactured prior to the applicability dates of this regulation. For units RC-11 to RC-13, NSPS OOOO/OOOOa applicability will be completed once the units are installed.
20.2.78 NMAC	Emission Standards for HAPS	No	N/A	This facility emits hazardous air pollutants which are not subject to the requirements of 40 CFR Part 61.
20.2.79 NMAC	Permits – Nonattainment Areas	No	Facility	The Facility is not located in a nonattainment area.
20.2.80 NMAC	Stack Heights	No		This regulation established requirements for the evaluation of stack heights and other dispersion techniques. The stacks at the facility will follow good engineering practices. This regulation does not apply as all stacks at the facility will follow good engineering practice.
20.2.82 NMAC	MACT Standards for source categories of HAPS	Yes	C-01 through C-13	The compressor engines (Unit ID C-01 to C-13) are subject to 40 CFR 63 Subpart ZZZZ.

Example of a Table for Applicable FEDERAL REGULATIONS (Note: This is not an exhaustive list):

FEDERAL REGU-LATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
40 CFR 50	NAAQS	Yes	Facility	This regulation defines national ambient air quality standards. The facility meets all applicable national ambient air quality standards for NOx, CO, SO_2, H_2S, PM_{10}, and $PM_{2.5}$ under this regulation.
NSPS 40 CFR 60, Subpart A	General Provisions	Yes	FUG, C-06, C-07, C-11, C-12, C-13, RC-07,	The purpose of this regulation is to establish state authority to implement new source performance standards for stationary sources in New Mexico subject to 40 CFR Part 60. This regulation applies as 40 CFR 60 Subpart JJJJ applies to C-06, C-07, and GEN, and may potentially apply to engines C-10 to C-13 and NSPS OOOOa applies to FUG and RC-07

FEDERAL REGU-LATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
			GEN	
NSPS 40 CFR60.40a, Subpart Da	Subpart Da, Performance Standards for **Electric Utility Steam Generating Units**	No	N/A	This regulation establishes standards for performance for electric utility steam generating units. This regulation does not apply because the facility does not operate any electric utility steam generating units.
NSPS 40 CFR60.40b Subpart Db	**Electric Utility Steam Generating Units**	No	N/A	This regulation established standards for performance for industrial-commercial-institutional steam generating units. This regulation does not apply because the facility does not operate any industrial-commercial-institutional steam generating units with heat inputs greater than 100 MMBtu/hr.
40 CFR 60.40c, Subpart Dc	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	No	N/A	There are no sources subject to this regulation.
NSPS 40 CFR 60, Subpart Ka	Standards of Performance for **Storage Vessels for Petroleum Liquids** for which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and **Prior** to July 23, 1984	No	N/A	This regulation establishes performance standards for storage vessels for petroleum liquids for which construction, reconstruction, or modification commenced after May 18, 1978, and prior to July 23, 1984. Petroleum liquids at this facility are sent to the pipeline and are not stored. This regulation does not apply.
NSPS 40 CFR 60, Subpart Kb	Standards of Performance for **Volatile Organic Liquid Storage Vessels** (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced **After** July 23, 1984	No	N/A	This regulation establishes performance standards for volatile organic liquid storage vessels (including petroleum liquid storage vessels) for which construction, reconstruction, or modification commenced after July 23, 1984. The capacities of all storage tanks at the facility are less than 75 m3 and are not subject to this regulation.
NSPS 40 CFR 60.330 Subpart GG	**Stationary Gas Turbines**	No	N/A	This regulation establishes standards of performance for stationary gas turbines. The facility does not operate stationary gas turbines and is therefore not subject to this regulation.
NSPS 40 CFR 60, Subpart KKK	Leaks of VOC from **Onshore Gas Plants**	No	N/A	This regulation establishes standards of performance for equipment leaks of VOC from onshore natural gas processing plants for which construction, reconstruction, or modification commenced after January 20, 1984, and on or before August 23, 2011. The facility is not a natural gas processing plant as defined in this regulation [40 CFR Part 60.631]. This regulation does not apply because this facility does not meet the definition of a natural gas processing plant as stated in the regulation.
NSPS 40 CFR Part	Standards of Performance for **Onshore Natural**	No	N/A	This regulation establishes standards pf performance for SO2 emissions form onshore natural gas processing for which construction, reconstruction, or medication commenced after January 20, 1984 and on or before August 23, 2011.

FEDERAL REGU-LATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
60 Subpart LLL	**Gas Processing**: SO_2 Emissions			The facility is not considered a natural gas processing plant and will have commenced construction after August 23, 2011. The facility is not subject to this regulation.
NSPS 40 CFR Part 60 Subpart OOOO	Standards of Performance for Crude Oil and Natural Gas Production, Transmission, and Distribution for which construction, modification or reconstruction commenced after August 23, 2011 and before September 18, 2015	No	N/A	This regulation establishes standards of performance for crude oil and natural gas production, transmission, and distribution. The rule applies to "affected" facilities that are constructed, modified, or reconstructed after August 23, 2011. The facility does not operate natural gas wells, centrifugal compressors, or sweetening units. The facility does not extract natural gas liquids or fractionate natural gas liquids to natural gas products and, therefore, is not considered a natural gas processing plant. Applicability to facility operations is as follows: Pursuant to 40 CFR §60.5365(e), a storage vessel is an affected facility if it is located in the oil and natural gas production segment and has the potential to emit 6 tpy or more VOC emissions. The produced water storage tank (Unit TK-6) emits less than 6 tons per year of VOCs and, therefore is not an affected source subject to NSPS OOOO. The units RC-01 to RC-10 reciprocating compressors were constructed prior to August 23, 2011 and are therefore not subject to this regulation (40 CFR §60.5365). For units RC-11 to RC-13, NSPS OOOO applicability will be completed once the units are installed. Targa will complete a regulatory applicability determination and follow all applicable requirements. The pneumatic controllers do not meet the definition of an affected facility under §60.5365(d)(1)-(3), as they are not considered continuous bleed.
NSPS 40 CFR Part 60 Subpart OOOOa	Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015	Yes	FUG, RC-07	This regulation establishes standards of performance for crude oil and natural gas facilities for which construction, modification, or reconstruction commenced after September 18, 2015. The reciprocating compressors associated with C-01 to C-06 and C-08 to C-10 (Units with engines RC-01 to RC-06 and RC-08 to RC-10) at the facility each have a manufacture date prior to September 18, 2015. These units were relocated from other sites and relocation is not considered a modification per 60.14(e)(6). Therefore, these compressors are not subject to §60.5365a(c). The reciprocating compressor associated with engines C-07 (Unit RC-07) has a manufacture date after September 18, 2015 and is subject to §60.5365a(c). For units RC-11 to RC-13, NSPS OOOOa applicability will be completed once the units are installed. Targa will complete a regulatory applicability determination and follow all applicable requirements. The collection of fugitive emissions components at a compressor station are an. affected facility. A modification to a compressor station occurs when: • An additional compressor is installed at a compressor station; or • One or more compressors at a compressor station is replaced by one or more compressors of greater total horsepower than the compressor(s) being replaced. • Since the construction of the Brininstool Compressor Station started after the September 18, 2015 applicability date, the fugitive emission components are subject to NSPS OOOOa (per 60.5365a(i)). The facility will follow all applicable standards.
NSPS 40 CFR 60 Subpart IIII	Standards of performance for Stationary Compression Ignition Internal Combustion	No	N/A	This regulation establishes standards of performance for stationary compression ignition internal combustion engines. This facility does not have compression ignition internal combustion engines. This regulation does not apply.

FEDERAL REGU-LATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
	Engines			
NSPS 40 CFR Part 60 Subpart JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	Yes	C-06, C-07, C-11, C-12, C-13, GEN	This regulation establishes standards of performance for stationary spark ignition internal combustion engines. This regulation applies to engines which are manufactured on or after July 1, 2007 for engines with a maximum engine power greater than or equal to 500 hp. Engines C-01 to C-05 and C-08 to C-10 were manufactured prior to July 1, 2007 and are not subject. Engines C-06, C-07, and GEN are subject to this regulation. Engines C-11, C-12 and C-13 are expected to have manufacture dates of July 1, 2010 or later, and are expected to be subject to this regulation.
NSPS 40 CFR 60 Subpart TTTT	Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units	No	N/A	There will be no electric generating units at the site.
NSPS 40 CFR 60 Subpart UUUU	Emissions Guidelines for Greenhouse Gas Emissions and Compliance Times for Electric Utility Generating Units	No	N/A	The Facility is not a municipal solid waste landfill.
NSPS 40 CFR 60, Subparts WWW, XXX, Cc, and Cf	Standards of performance for Municipal Solid Waste (MSW) Landfills	No	N/A	The Facility is not a municipal solid waste landfill.
NESHAP 40 CFR 61 Subpart A	General Provisions	Yes	N/A	This part applies to the owner or operator of any stationary source for which a standard is prescribed under this part.
NESHAP 40 CFR 61 Subpart E	National Emission Standards for **Mercury**	No	N/A	The provisions of this subpart are applicable to those stationary sources which process mercury ore to recover mercury, use mercury chlor-alkali cells to produce chlorine gas and alkali metal hydroxide, and incinerate or dry wastewater treatment plant sludge his facility does not process mercury therefore this regulation does not apply.
NESHAP 40 CFR 61 Subpart V	National Emission Standards for **Equipment Leaks** (Fugitive Emission Sources)	No	N/A	The provisions of this subpart apply to each of the following sources that are intended to operate in volatile hazardous air pollutant (VHAP) service: pumps, compressors, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, connectors, surge control vessels, bottoms receivers, and control devices or systems required by this subpart. VHAP service means a piece of equipment either contains or contacts a fluid (liquid or gas) that is at least 10 percent by weight of VHAP. VHAP means a substance regulated under this subpart for which a standard for equipment leaks of the substance has been promulgated. Benzene is a VHAP (See 40 CFR 61 Subpart J). The regulated activities subject to this regulation do not take place at this facility. The facility is not subject to this regulation.
MACT 40 CFR 63, Subpart A	General Provisions	Yes	C-01 through C-13	The compressor engines (Unit ID C-01 – C-13) are subject to 40 CFR 63 Subpart ZZZZ.
MACT 40 CFR 63.760 Subpart HH	**Oil and Natural Gas Production Facilities**	No	N/A	This regulation establishes national emission standards for hazardous air pollutants from oil and na1un1J gas production facilities. This facility is an area source of HAPs, but does not have an affected source. Therefore, this regulation does not apply.

FEDERAL REGU-LATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
MACT 40 CFR 63 Subpart HHH		No	N/A	This subpart applies to owners and operators of natural gas transmission and storage facilities that transport or store natural gas prior to entering the pipeline to a local distribution company or to a final end user (if there is no local distribution company), and that are major sources of hazardous air pollutants (HAP) emissions as defined in §63.1271. This facility is not a natural gas transmission and storage facility as defined in this subpart. This regulation does not apply.
MACT 40 CFR 63 Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Major Industrial, Commercial, and Institutional Boilers & Process Heaters	No	N/A	This subpart established national emission limitation and work practice standards for hazardous air pollutants (HAP) emitted from industrial, commercial, and institutional boilers and process heaters located at major sources of HAP. This facility is not a major source of HAP and does not contain affected source. This regulation does not apply.
MACT 40 CFR 63 Subpart UUUUU	National Emission Standards for Hazardous Air Pollutants Coal & Oil Fire Electric Utility Steam Generating Unit	No	N/A	This subpart establishes national emission limitations and work practice standards for hazardous air pollutants (HAP) emitted from coal- and oil-fired electric utility steam generating units (EGUs) as defined in §63.10042 of this subpart. This facility does not contain the affected source. This regulation does not apply.
MACT 40 CFR 63 Subpart ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (**RICE MACT**)	Yes	C-01 through C-13	This regulation defines national emissions standards for HAPs for stationary Reciprocating Internal Combustion Engines. Engines C-01 to C-05, C-09 and C-10 are non-remote existing stationary 4 stroke rich burn engines located at an area source of HAP emissions as the engines commenced construct before June 12, 2006. The engines must comply with requirements in Table 2d, 4 and 5 per §63.6603(a). Engines C-06, C-08, and C-11 to C-13 are non-remote engines which commenced construction after June 12, 2006, and thus are considered new engines. Per §63.6590(c)(I), any new or reconstructed RICE located at an area source must meet the requirements of Subpart ZZZZ by meeting the requirements of 40 CFR 60 Subpart JJJJ, and no additional requirements apply to these engines under Subpart ZZZZ.
40 CFR 64	**Compliance Assurance Monitoring**	No	N/A	This regulation defines compliance assurance monitoring. C-1 to C-10, C-12 and C-13 have pre-control emissions of NOx and CO greater than 100 tpy and post-control emissions less than 100 tpy. The controls on the engines are required by NSPS JJJJ and/or ZZZZ. This regulation does not apply.
40 CFR 68	**Chemical Accident Prevention**	No	N/A	Facility is regulated under DOT Office of Pipeline Safety Regulations (49 CFR 192, 193 and 195); therefore, it is not subject to this regulation. This regulation arises from section 112(r) of the Clean Air Act and establishes thresholds based on inventoried quantities of specific substances in process. As established at 40 CFR 68.3, the term "stationary source" does not apply to the transportation of any regulated substance or any other extremely hazardous substance under the provisions of this part, provided that such transportation is regulated under 49 CFR parts 192, 193, or 195 (DOT Office of Pipeline Safety Regulations).
Title IV – Acid Rain 40 CFR 72	**Acid Rain**	No	N/A	The site does not generate commercial electric power or electric power for sale.
Title IV – Acid Rain 40 CFR 73	**Sulfur Dioxide** Allowance Emissions	No	N/A	The site does not generate commercial electric power or electric power for sale.

FEDERAL REGU-LATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
Title IV-Acid Rain 40 CFR 75	**Continuous Emissions Monitoring**	No	N/A	The site does not generate commercial electric power or electric power for sale.
Title IV – Acid Rain 40 CFR 76	**Acid Rain** Nitrogen Oxides **Emission Reduction Program**	No	N/A	The site does not generate commercial electric power or electric power for sale.
Title VI – 40 CFR 82	Protection of **Stratospheric Ozone**	No	N/A	This regulation establishes a regulation for protection of the stratospheric ozone. The regulation is not applicable because the facility does not "service", "maintain" or "repair" class I or class II appliances nor "disposes" of the appliances [40 CFR Part 82.1(a)].

Section 14

Operational Plan to Mitigate Emissions

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

☐ **Title V Sources** (20.2.70 NMAC)**:** By checking this box and certifying this application the permittee certifies that it has developed an **Operational Plan to Mitigate Emissions During Startups, Shutdowns, and Emergencies** defining the measures to be taken to mitigate source emissions during startups, shutdowns, and emergencies as required by 20.2.70.300.D.5(f) and (g) NMAC. This plan shall be kept on site to be made available to the Department upon request. This plan should not be submitted with this application.

☒ **NSR** (20.2.72 NMAC)**, PSD** (20.2.74 NMAC) **& Nonattainment** (20.2.79 NMAC) **Sources:** By checking this box and certifying this application the permittee certifies that it has developed an **Operational Plan to Mitigate Source Emissions During Malfunction, Startup, or Shutdown** defining the measures to be taken to mitigate source emissions during malfunction, startup, or shutdown as required by 20.2.72.203.A.5 NMAC. This plan shall be kept on site to be made available to the Department upon request. This plan should not be submitted with this application.

☒ **Title V** (20.2.70 NMAC)**, NSR** (20.2.72 NMAC)**, PSD** (20.2.74 NMAC) **& Nonattainment** (20.2.79 NMAC) **Sources:** By checking this box and certifying this application the permittee certifies that it has established and implemented a Plan to Minimize Emissions During Routine or Predictable Startup, Shutdown, and Scheduled Maintenance through work practice standards and good air pollution control practices as required by 20.2.7.14.A and B NMAC. This plan shall be kept on site or at the nearest field office to be made available to the Department upon request. This plan should not be submitted with this application.

SSM activities are performed at the site to ensure the site continued to operate in a manner that is safe, efficient, and environmentally sound. Startup and shutdown procedures are performed according to guidelines which dictate proper procedural sequence to minimize emissions from the facility during such activities.

Equipment located at the plant is equipped with various safety devices that aid in preventing excess emissions to the atmosphere in the event of an operational emergency. In the event of a malfunction, startup, shutdown, or scheduled maintenance in which emission rates from the facility exceed permitted allowables. Targa will notify the AQB in accordance with 20.2.7 NMAC and equipment responsible for the exceedance will be repaired as soon as possible.

Section 15

Alternative Operating Scenarios

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

Alternative Operating Scenarios: Provide all information required by the department to define alternative operating scenarios. This includes process, material and product changes; facility emissions information; air pollution control equipment requirements; any applicable requirements; monitoring, recordkeeping, and reporting requirements; and compliance certification requirements. Please ensure applicable Tables in this application are clearly marked to show alternative operating scenario.

Construction Scenarios: When a permit is modified authorizing new construction to an existing facility, NMED includes a condition to clearly address which permit condition(s) (from the previous permit and the new permit) govern during the interval between the date of issuance of the modification permit and the completion of construction of the modification(s). There are many possible variables that need to be addressed such as: Is simultaneous operation of the old and new units permitted and, if so for example, for how long and under what restraints? In general, these types of requirements will be addressed in Section A100 of the permit, but additional requirements may be added elsewhere. Look in A100 of our NSR and/or TV permit template for sample language dealing with these requirements. Find these permit templates at: https://www.env.nm.gov/aqb/permit/aqb_pol.html. Compliance with standards must be maintained during construction, which should not usually be a problem unless simultaneous operation of old and new equipment is requested.

In this section, under the bolded title "Construction Scenarios", specify any information necessary to write these conditions, such as: conservative-realistic estimated time for completion of construction of the various units, whether simultaneous operation of old and new units is being requested (and, if so, modeled), whether the old units will be removed or decommissioned, any PSD ramifications, any temporary limits requested during phased construction, whether any increase in emissions is being requested as SSM emissions or will instead be handled as a separate Construction Scenario (with corresponding emission limits and conditions, etc.

This application does not include alternative operating scenarios.

Section 16

Air Dispersion Modeling

1) Minor Source Construction (20.2.72 NMAC) and Prevention of Significant Deterioration (PSD) (20.2.74 NMAC) ambient impact analysis (modeling): Provide an ambient impact analysis as required at 20.2.72.203.A(4) and/or 20.2.74.303 NMAC and as outlined in the Air Quality Bureau's Dispersion Modeling Guidelines found on the Planning Section's modeling website. If air dispersion modeling has been waived for one or more pollutants, attach the AQB Modeling Section modeling waiver approval documentation.
2) SSM Modeling: Applicants must conduct dispersion modeling for the total short term emissions during routine or predictable startup, shutdown, or maintenance (SSM) using realistic worst case scenarios following guidance from the Air Quality Bureau's dispersion modeling section. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (http://www.env.nm.gov/aqb/permit/app_form.html) for more detailed instructions on SSM emissions modeling requirements.
3) Title V (20.2.70 NMAC) ambient impact analysis: Title V applications must specify the construction permit and/or Title V Permit number(s) for which air quality dispersion modeling was last approved. Facilities that have only a Title V permit, such as landfills and air curtain incinerators, are subject to the same modeling required for preconstruction permits required by 20.2.72 and 20.2.74 NMAC.

What is the purpose of this application?	Enter an X for each purpose that applies
New PSD major source or PSD major modification (20.2.74 NMAC). See #1 above.	
New Minor Source or significant permit revision under 20.2.72 NMAC (20.2.72.219.D NMAC). See #1 above. **Note:** Neither modeling nor a modeling waiver is required for VOC emissions.	X
Reporting existing pollutants that were not previously reported.	
Reporting existing pollutants where the ambient impact is being addressed for the first time.	
Title V application (new, renewal, significant, or minor modification. 20.2.70 NMAC). See #3 above.	
Relocation (20.2.72.202.B.4 or 72.202.D.3.c NMAC)	
Minor Source Technical Permit Revision 20.2.72.219.B.1.d.vi NMAC for like-kind unit replacements.	
Other: i.e. SSM modeling. See #2 above.	
This application does not require modeling since this is a No Permit Required (NPR) application.	
This application does not require modeling since this is a Notice of Intent (NOI) application (20.2.73 NMAC).	
This application does not require modeling according to 20.2.70.7.E(11), 20.2.72.203.A(4), 20.2.74.303, 20.2.79.109.D NMAC and in accordance with the Air Quality Bureau's Modeling Guidelines.	

Check each box that applies:

☐ See attached, approved modeling **waiver for all** pollutants from the facility.
☒ See attached, approved modeling **waiver for some** pollutants from the facility.
☐ Attached in Universal Application Form 4 (UA4) is a **modeling report for all** pollutants from the facility.
☒ Attached in UA4 is a **modeling report for some** pollutants from the facility.
☐ No modeling is required.

New Mexico Environment Department
Air Quality Bureau
Modeling Section
525 Camino de Los Marquez - Suite 1
Santa Fe, NM 87505

Phone: (505) 476-4300
Fax: (505) 476-4375
www.env.nm.gov/aqb/

For Department use only:

Approved by:

Date:

Air Dispersion Modeling Waiver Request Form

This form must be completed and submitted with all air dispersion modeling waiver requests.

If an air permit application requires air dispersion modeling, in some cases the demonstration that ambient air quality standards and Prevention of Significant Deterioration (PSD) increments will not be violated can be satisfied with a discussion of previous modeling. The purpose of this form is to document and streamline requests to certify that previous modeling satisfies all or some of the current modeling requirements. The criteria for requesting and approving modeling waivers is found in the Air Quality Bureau Modeling Guidelines. Typically, only construction permit applications submitted per 20.2.72, 20.2.74, or 20.2.79 NMAC require air dispersion modeling. However, modeling is sometimes also required for a Title V permit application.

A waiver may be requested by e-mailing this completed form in **MS Word** format to the modeling manager, sufi.mustafa@state.nm.us.

This modeling waiver is not valid if the emission rates in the application are higher than those listed in the approved waiver request.

Section 1 and Table 1: Contact and facility information:

Contact name	Laura Worthen Lodes
E-mail Address:	Laura.Worthen-Lodes@Altamira-us.com
Phone	405.702.1618
Facility Name	Brininstool Compressor Station
Air Quality Permit Number(s)	6317
Agency Interest Number (if known)	**35592**
Latitude and longitude of facility (decimal degrees)	32.3002278, -103.540367

General Comments: (Add introductory remarks or comments here, including the purpose of and type of permit application.)

A NSR application to add three (3) engines, which will make the site a major source is being submitted. The application will add one (1) Caterpillar 3606 and two (2) Waukesha L74042GSI engines.

Section 2 – List All Regulated Pollutants from the Entire Facility - Required

In Table 2, below, list all regulated air pollutants emitted from your facility, except for New Mexico Toxic Air Pollutants, which are listed in Table 6 of this form. All pollutants emitted from the facility must be listed regardless if a modeling waiver is requested for that pollutant or if the pollutant emission rate is subject to the proposed permit changes.

Table 2: Air Pollutant summary table (Check all that apply. Include all pollutants emitted by the facility):

Pollutant	Pollutant is not emitted at the facility and modeling or waiver are not required.	Pollutant does not increase in emission rate at any emission unit (based on levels currently in the permit) and stack parameters are unchanged. Modeling or waiver are not required.	Stack parameters or stack location has changed.	Pollutant is new to the permit, but already emitted at the facility.	Pollutant is increased at any emission unit (based on levels currently in the permit).	A modeling waiver is being requested for this pollutant.	Modeling for this pollutant will be included in the permit application.
CO					X	X	
NO_2					X		X
SO_2					X		
PM10					X	X	
PM2.5					X	X	
H_2S		X					
Reduced S	X						
O_3 (PSD only)	X						
Pb	X						

Section 3: Facility wide pollutants, other than NMTAPs, with very low emission rates

The Air Quality Bureau has performed generic modeling to demonstrate that small sources, as listed in Appendix 2 of this form, do not need computer modeling. After comparing the facility's emission rates for various pollutants to Appendix 2, please list in Table 3 the pollutants that do not need to be modeled because of very low emission rates.

Section 3 Comments. (If you are not requesting a waiver for any pollutants based on their low emission rate, then note that here. You do not need to complete the rest of Section 3 or Table 3.)
No waiver due to very low emission rates is requested.

Table 3: List of Pollutants with very low facility-wide emission rates

Pollutant	Requested Allowable Emission Rate From Facility (pounds/hour)	Release Type (select "all from stacks >20 ft" or "other")	Waiver Threshold (from appendix 2) (lb/hr)

Section 4: Pollutants that have previously been modeled at equal or higher emission rates
List the pollutants and averaging periods in Table 4 for which you are requesting a modeling waiver based on previous modeling for this facility. The previous modeling reports that apply to the pollutant must be submitted with the modeling waiver request. Request previous modeling reports from the Modeling Section of the Air Quality Bureau if you do not have them and believe they exist in the AQB modeling file archive or in the permit folder.

Section 4 Comments. (If you are not asking for a waiver based on previously modeled pollutants, note that here. You do not need to complete the rest of section 4 or table 4.)

Table 4: List of previously modeled pollutants (facility-wide emission rates)

Pollutant	Averaging period	Proposed emission rate (pounds/hour)	Previously modeled emission rate (pounds/hour)	Proposed minus modeled emissions (lb/hr)	Modeled percent of standard or increment	Year modeled
NOx	1-hr	27.41	16.78	10.63	69%	2016
NOx	Annual (NMAAQS)	27.41	16.78	10.63	13%	2016
NOx	Annual (PSD Class II)	27.41	16.78	10.63	19.8%	2016
CO	1-hr	26.13	45.17	-19.04	14.3%	2016
CO	8-hr	26.13	45.17	-19.04	6.1%	2016
PM2.5	Annual	2.78	2.23	0.56	53%	2016
PM2.5	24-hr	2.78	2.23	0.56	57%	2016
H2S	1-hr	2.78	2.23	0.56	64%	2016
PM10	Annual	2.78	2.23	0.56	49.3%	2016
PM10	24-hr	2.78	2.23	0.56	50.6%	2016
TSP	Annual	2.78	2.23	0.56	49.3%	2016
TSP	24-hr	2.78	2.23	0.56	50.6%	2016
SO2	Annual	1.82	25.23	-23.42	46.1%	2016
SO2	24-hr	1.82	25.23	-23.42	42.4%	2016
SO2	3-hr	1.82	25.23	-23.42	20.7%	2016
SO2	1-hr	1.82	25.23	-23.42	71%	2016

Section 4, Table 5: Questions about previous modeling:

Question	Yes	No
Was AERMOD used to model the facility?	X	
Did previous modeling predict concentrations less than 95% of each air quality standard and PSD increment?	X	
Were all averaging periods modeled that apply to the pollutants listed above?	X	
Were all applicable startup/shutdown/maintenance scenarios modeled?	X	
Did modeling include all sources within 1000 meters of the facility fence line that now exist?	X	
Did modeling include background concentrations at least as high as current background concentrations?	X	
If a source is changing or being replaced, is the following equation true for all pollutants for which the waiver is requested? (Attach calculations if applicable.) $\frac{[(g) \times (h1)] + [(v1)^2/2] + [(c) \times (T1)]}{q1} <= \frac{[(g) \times (h2)] + [(v2)^2/2] + [(c) \times (T2)]}{q2}$ Where g = gravitational constant = 32.2 ft/sec^2 h1 = existing stack height, feet v1 = exhaust velocity, existing source, feet per second c = specific heat of exhaust, 0.28 BTU/lb-degree F T1 = absolute temperature of exhaust, existing source = degree F + 460 q1 = emission rate, existing source, lbs/hour h2 = replacement stack height, feet v2 = exhaust velocity, replacement source, feet per second T2 = absolute temperature of exhaust, replacement source = degree F + 460 q2 = emission rate, replacement source, lbs/hour	X	

If you checked "no" for any of the questions, provide an explanation for why you think the previous modeling may still be used to demonstrate compliance with current ambient air quality standards.

Section 5: Modeling waiver using scaled emission rates and scaled concentrations

At times it may be possible to scale the results of modeling one pollutant and apply that to another pollutant. If the analysis for the waiver gets too complicated, then it becomes a modeling review rather than a modeling waiver, and applicable modeling fees will be charged for the modeling. Plume depletion, ozone chemical reaction modeling, post-processing, and unequal pollutant ratios from different sources are likely to invalidate scaling.

If you are not scaling previous results, note that here. You do not need to complete the rest of section 5.

To demonstrate compliance with standards for a pollutant describe scenarios below that you wish the modeling section to consider for scaling results.

The proposed permit revision is requesting the addition of three (3) compressor engines.

The scaled modeled concentrations are significantly less than the standards and are similar to those currently authorized by Permit No. 6317-M2.

Pollutant	Averaging period	Proposed emission rate (pounds/hour)	Previously modeled emission rate (pounds/hour)	Proposed minus modeled emissions (lb/hr)	Previously modeled percent of standard or increment	Proposed scaled percent of standard or increment
NOx	1-hr					
NOx	24-hr					
NOx	Annual					
CO	1-hr	26.13	45.17	-19.04	14.30%	8.27%
CO	8-hr	26.13	45.17	-19.04	6.10%	3.53%
PM2.5	Annual	2.78	2.23	0.56	53%	66.26%
PM2.5	24-hr	2.78	2.23	0.56	57%	71.26%
PM10	Annual	2.78	2.23	0.56	49.30%	61.63%
PM10	24-hr	2.78	2.23	0.56	50.60%	63.26%

Section 6: New Mexico Toxic air pollutants – 20.2.72.400 NMAC

Modeling must be provided for any New Mexico Toxic Air Pollutant (NMTAP) with a facility-wide controlled emission rate in excess of the pound per hour emission levels specified in Tables A and B at **20.2.72.502 NMAC** - Toxic Air Pollutants and Emissions. An applicant may use a stack height correction factor based on the release height of the stack for the purpose of determining whether modeling is required. See Table C - Stack Height Correction Factor at 20.2.72.502 NMAC. Divide the emission rate for each release point of a NMTAP by the correction factor for that release height and add the total values together to determine the total adjusted pound per hour emission rate for that NMTAP. If the total adjusted pound per hour emission rate is lower than the emission rate screening level found in Tables A and B, then modeling is not required.

In Table 6, below, list the total facility-wide emission rates for each New Mexico Toxic Air Pollutant emitted by the facility. The table is pre-populated with common examples. Extra rows may be added for NMTAPS not listed or for NMTAPS emitted from multiple stack heights. NMTAPS not emitted at the facility may be deleted, left blank, or noted as 0 emission rate. Toxics previously modeled may be addressed in Section 5 of this waiver form. For convenience, we have listed the stack height correction factors in Appendix 1 of this form.

Section 6 Comments. (If you are not requesting a waiver for any NMTAPs then note that here. You do not need to complete the rest of section 6 or Table 6.)

No waiver for NMTAPs is requested.

Table 6: New Mexico Toxic Air Pollutants emitted at the facility
If requesting a waiver for any NMTAP, all NMTAPs from this facility must be listed in Table 3 regardless if a modeling waiver is requested for that pollutant or if the pollutant emission rate is subject to the proposed permit changes.

Pollutant	Requested Allowable Emission Rate (pounds/hour)	Release Height (Meters)	Correction Factor	Allowable Emission Rate Divided by Correction Factor	Emission Rate Screening Level (pounds/hour)
Ammonia					1.20
Asphalt (petroleum) fumes					0.333
Carbon black					0.233
Chromium metal					0.0333
Glutaraldehyde					0.0467
Nickel Metal					0.0667
Wood dust (certain hard woods as beech & oak)					0.0667
Wood dust (soft wood)					0.333
(add additional toxics if they are present)					

Section 7: Approval or Disapproval of Modeling Waiver

The AQB air dispersion modeler should list each pollutant for which the modeling waiver is approved, the reasons why, and any other relevant information. If not approved, this area may be used to document that decision.

Appendix 1: Stack Height Release Correction Factor (adapted from 20.2.72.502 NMAC)

Release Height in Meters	Correction Factor
0 to 9.9	1
10 to 19.9	5
20 to 29.9	19
30 to 39.9	41
40 to 49.9	71
50 to 59.9	108
60 to 69.9	152
70 to 79.9	202
80 to 89.9	255
90 to 99.9	317
100 to 109.9	378
110 to 119.9	451
120 to 129.9	533
130 to 139.9	617
140 to 149.9	690
150 to 159.9	781
160 to 169.9	837
170 to 179.9	902
180 to 189.9	1002
190 to 199.9	1066
200 or greater	1161

Appendix 2. Very small emission rate modeling waiver requirements

Modeling is waived if emissions of a pollutant for the entire facility (including haul roads) are below the amount:

Pollutant	If all emissions come from stacks 20 feet or greater in height and there are no horizontal stacks or raincaps (lb/hr)	If not all emissions come from stacks 20 feet or greater in height, or there are horizontal stacks, raincaps, volume, or area sources (lb/hr)
CO	50	2
H_2S (Pecos-Permian Basin)	0.1	0.02
H_2S (Not in Pecos-Permian Basin)	0.01	0.002
Lead	No waiver	No waiver
NO_2	2	0.025
PM2.5	0.3	0.015
PM10	1.0	0.05
SO_2	2	0.025
Reduced sulfur (Pecos-Permian Basin)	0.033	No waiver
Reduced sulfur (Not in Pecos-Permian Basin)	No waiver	No waiver

November 6, 2021

Mr. Sufi Mustafa
New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico 87505-1816

RE: Air Dispersion Modeling Protocol for Compressor Station
Targa Midstream Services, LLC
Brininstool Compressor Station

Dear Mr. Mustafa:

.

Targa Midstream Services, LLC is preparing a construction permit application to modify operations at Brininstool Compressor Station. In support of this application, air dispersion modeling will be conducted for nitrogen dioxide (NO2). The analysis will evaluate compliance with the National Ambient Air Quality Standards (NAAQS). This protocol outlines the proposed air dispersion modeling techniques that will be used to assess impacts surrounding the facility.This facility is currently permitted under NSR Permit 6317-R1 for the following equipment: ten Waukesha L7042GSI reciprocating engines, a produced water tank, process flaring, SSM/M flaring, SSM venting, and fugitive emissions.

Introduction

Targa Midstream Services, LLC is preparing a construction permit application to modify operations at Brininstool Compressor Station. This facility is currently permitted under NSR Permit 6317-R1 for the following equipment: ten Waukesha L7042GSI reciprocating engines, a produced water tank, process flaring, SSM/M flaring, SSM venting, and fugitive emissions.

The proposed modification will include installation of two (2) caterpillar G3606 and one (1) Waukesha L7042GSI engines. As the modification results in an increase of emissions, modeling is required to demonstrate compliance with ambient air quality standards. Targa Midstream Services, LLC seeks to demonstrate compliance with the New Mexico Ambient Air Quality Standards (NMAAQS), the National Ambient Air Quality Standards (NAAQS), as well as the PSD Class II Standards as applicable for NO2 1-hr, 24-hr standards and annual. A modeling waiver has been submitted for the CO, PM2.5, PM10, and H2S. The facility is located in the Air Quality Control Region 155 where the PSD minor source baseline data has been triggered for NO2, SO2, and PM10.

Facility Description

Brininstool Compressor Station is equipped to compress natural gas. Upon permit modification, the following sources will be permitted to operate at the facility:

- Eleven (11) Waukesha L7042GSI
- Two (2) Caterpillar G3606
- Process Flare
- Facility fugitives
- SSM Emissions

Facility Identification and Location
Brininstool Compressor Station is located approximately 20 miles southwest of Eunice in Lea County New Mexico. The UTM Coordinates of the facility are 637,420 meters East and 3,574,650 meters North with WGS84 datum at an elevation of approximately 3,665 feet above mean sea level.

Standards
Table 1 identifies the applicable significant impact levels (SIL) and NAAQS NMAAQS:

Table 1
SIL, NAAQS and NMAAQS

Pollutant	Averaging Period	SIL ($\mu g/m^3$)	NAAQS ($\mu g/m^3$)	NMAAQS ($\mu g/m^3$)
NO_2	1-Hour	7.52	188.03	
NO_2	24-Hour	5.0	--	188.03
NO_2	Annual	0.1	99.66	94.02

The high-eighth-high daily maximum 1-hour NO_2 concentration will be used to evaluate compliance with the NAAQS.

Model Input Options
We will use the latest version of BEEST AERMOD dispersion model, version 21112, for this analysis. NOX impacts will be converted to NO2 impacts using the Ambient Ratio Method 2 (ARM2). If an NO2/NOX ratio of less than 0.5 is used, justification will be provided.

We will incorporate terrain into the modeling analysis. As the site is located in a rural area, rural dispersion coefficients will be implemented via the use of the RURAL keyword. A building downwash analysis using the latest version of BPIP will be conducted and incorporated into the modeling analysis to account for potential effluent downwash due to the engine structures, cooling fans, tanks and buildings.

Receptor Grid Description
For each pollutant, the radius of significant impact around the facility is established using a Cartesian grid. A 50-meter grid spacing is used for the facility boundary receptors. A 100-meter spacing is extended out to 1-km from the facility boundary in each direction for a very fine grid resolution. Receptors for a fine grid resolution are placed with 250-meter spacing to a distance of 2.5-km from the facility boundary. For intermediate and rough grid resolutions, 500-meter spacing and 1000-meter spacing are extended to 5-km and 10-km beyond the facility boundary, respectively. The elevations of facility sources, receptors and surrounding sources will be determined using the same method and most recent 7.5 minute DEM data currently available.

Meteorological Data
We will use the five-year Artesia Municipal Airport (KATS) met data set, collected in 2011 to 2015 and available on the NMED website. We feel that met station is located in comparable terrain not far from the facility. Therefore, this data is representative of meteorological conditions at the facility.

Radius of Impact (ROI) Analysis and Cumulative Impact Analysis (CIA)
We will conduct a significant impact analysis for each pollutant's emissions from the facility sources. If an air pollutant discharged by the facility results in an ambient impact greater than the significance levels mentioned in the NMED/AQB modeling guideline, the maximum extent of the significant impact area will be determined (as measured from the center of the facility to the furthest extent of the significant impact). The maximum extent will become a Radius of Impact (ROI). The area within the ROI then becomes the modeling domain for the CIA..

Neighboring Sources
Cumulative impacts to demonstrate compliance with the NO2 and SO2 NAAQS may be calculated as facility impacts plus background concentrations or may be calculated as facility impacts plus neighboring source impacts. Therefore, neighboring sources may be used to evaluate compliance. For NO2 NAAQS modeling, neighboring sources include all sources within 25 kilometers of the facility and all sources between 25 and 50 kilometers from the facility that are permitted to emit 1,000 pounds per hour or more.
Where used, neighboring sources will be obtained from the NMAQB.

Background Concentrations
Where impacts exceed the SIL, cumulative impacts for comparison with the NAAQS may be calculated as station impacts plus background concentrations as identified in the NMAQB modeling guidelines. If this method is utilized, background concentrations will be obtained from the modeling guidelines. Table 2 below identifies the applicable background concentrations that will be used.

Table 2
Background Concentrations

Pollutant	Averaging Period	Background ($\mu g/m^3$)	Source ID
NO_2	1-Hour	64.2	5ZS
NO_2	Annual	8.1	5ZS

The NO2 data is obtained from Table 17 of the NMAQB modeling guidelines and is the 1-hour background 98th percentile concentration. Since it is nearest the plant, NO2 data is taken from the outside of Carlsbad monitoring station.

PSD Increment Analysis
If the results of the ROI for NOx show an exceedance of the significance levels, PSD increment analysis will be conducted because the minor source baseline date has been established in the region. The PSD analysis will be conducted including all PSD increment consuming sources within the surrounding sources within 50 km plus the ROI or 65 km of the facility (whichever is greater). Unlike the CIA, a predicted maximum NO2 concentration will be compared with the PSD standard. There is not a PSD Increment for 1-hr or 24-hr NO2, there for this analysis is not anticipated.

Class I Areas Analysis
Since the nearest Class I area is Carlsbad Caverns National Park at 79.3 km from the facility, the Class I Area analysis is not applicable.

If you have any questions, please contact me at 405-919-4129 or laura.worthen-lodes@altamira-us.com.

Sincerely,
Altamira-US, LLC

Laura Worthen Lodes, PE
VP-Mid Continent Operations

Universal Application 4

Air Dispersion Modeling Report

Refer to and complete Section 16 of the Universal Application form (UA3) to assist your determination as to whether modeling is required. If, after filling out Section 16, you are still unsure if modeling is required, e-mail the completed Section 16 to the AQB Modeling Manager for assistance in making this determination. If modeling is required, a modeling protocol would be submitted and approved prior to an application submittal. The protocol should be emailed to the modeling manager. A protocol is recommended but optional for minor sources and is required for new PSD sources or PSD major modifications. Fill out and submit this portion of the Universal Application form (UA4), the "Air Dispersion Modeling Report", only if air dispersion modeling is required for this application submittal. This serves as your modeling report submittal and should contain all the information needed to describe the modeling. No other modeling report or modeling protocol should be submitted with this permit application.

16-A: Identification

1	Name of facility:	Brininstool Compressor Station
2	Name of company:	Targa Midstream Services, LLC
3	Current Permit number:	6317
4	Name of applicant's modeler:	Laura Worthen Lodes, PE
5	Phone number of modeler:	405-919-4129
6	E-mail of modeler:	Laura.worthen-lodes@altamira-us.com

16-B: Brief

1	Was a modeling protocol submitted and approved?	Yes☒	No☐
2	Why is the modeling being done?	Adding New Equipment	
3	Describe the permit changes relevant to the modeling.		
	The addition of three (3) natural gas fired engines.		
4	What geodetic datum was used in the modeling?	NAD83	
5	How long will the facility be at this location?	Permanent	
6	Is the facility a major source with respect to Prevention of Significant Deterioration (PSD)?	Yes☐	No☒
7	Identify the Air Quality Control Region (AQCR) in which the facility is located	155	

8	List the PSD baseline dates for this region (minor or major, as appropriate).	
	NO2	3/16/1988
	SO2	7/28/1978
	PM10	2/20/1979
	PM2.5	11/13/2013
9	Provide the name and distance to Class I areas within 50 km of the facility (300 km for PSD permits).	
	Carlsbad Caverns National Park at 79.3 km from the facility, the Class I Area analysis is not applicable.	
10	Is the facility located in a non-attainment area? If so describe below	Yes☐ No☒
11	Describe any special modeling requirements, such as streamline permit requirements.	
	N/A	

16-C: Modeling History of Facility

1. Describe the modeling history of the facility, including the air permit numbers, the pollutants modeled, the National Ambient Air Quality Standards (NAAQS), New Mexico AAQS (NMAAQS), and PSD increments modeled. (Do not include modeling waivers).

Pollutant	Latest permit and modification number that modeled the pollutant facility-wide.	Date of Permit	Comments
CO	6317-M1	3/2/2017	Pollutant was not significant.
NO_2	6317-M1	3/2/2017	NAAQS, NMAAQS, PSD Class II
SO_2	6317-M1	3/2/2017	NAAQS, NMAAQS, PSD Class II
H_2S	6317-M1	3/2/2017	NMAAQS
PM2.5	6317-M1	3/2/2017	NAAQS
PM10	6317-M1	3/2/2017	NAAQS, PSD Class II
Lead	N/A	N/A	Modeling not required for this pollutant.
Ozone (PSD only)	N/A	N/A	Modeling not required for this pollutant.
NM Toxic Air Pollutants (20.2.72.402 NMAC)	N/A	N/A	Modeling not required for this pollutant.

16-D: Modeling performed for this application

1. For each pollutant, indicate the modeling performed and submitted with this application.
Choose the most complicated modeling applicable for that pollutant, i.e., culpability analysis assumes ROI and cumulative analysis were also performed.

Pollutant	ROI	Cumulative analysis	Culpability analysis	Waiver approved	Pollutant not emitted or not changed.
CO	☐	☐	☐	☒	☐
NO_2	☐	☒	☐	☐	☐
SO_2	☐	☐	☐	☒	☐

	H_2S	☐	☐	☐	☒	☐
	PM2.5	☐	☐	☐	☒	☐
	PM10	☐	☐	☐	☒	☐
	Lead	☐	☐	☐	☐	☒
	Ozone	☐	☐	☐	☐	☒
	State air toxic(s) (20.2.72.402 NMAC)	☐	☐	☐	☐	☒

16-E: New Mexico toxic air pollutants modeling

1 List any New Mexico toxic air pollutants (NMTAPs) from Tables A and B in 20.2.72.502 NMAC that are modeled for this application.
Not applicable – This facility does not require modeling of New Mexico toxic air pollutants.

2 List any NMTAPs that are emitted but not modeled because stack height correction factor. Add additional rows to the table below, if required.

Pollutant	Emission Rate (pounds/hour)	Emission Rate Screening Level (pounds/hour)	Stack Height (meters)	Correction Factor	Emission Rate/ Correction Factor

16-F: Modeling options

1 Was the latest version of AERMOD used with regulatory default options? If not explain below. Yes☒ No☐

BEEST AERMOD with US EPA executable 21112 which provides more detailed background concentration tools and added flexibility.

The model was run in regulatory default mode for all pollutants other than NO_X. The NO_X model was run in non-regulatory model to allow for the use of ARM_2 conversion from NO_X to NO_2.

16-G: Surrounding source modeling

1 Date of surrounding source retrieval | Background monitoring data was used

2 If the surrounding source inventory provided by the Air Quality Bureau was believed to be inaccurate, describe how the sources modeled differ from the inventory provided. If changes to the surrounding source inventory were made, use the table below to describe them. Add rows as needed.

AQB Source ID	Description of Corrections

16-H: Building and structure downwash

1	How many buildings are present at the facility?	There are two buildings present at the facility.

2	How many above ground storage tanks are present at the facility?	There are 7 above ground storage tanks at the facility.		
3	Was building downwash modeled for all buildings and tanks? If not explain why below.		Yes☒	No☐
4	Building comments			

16-I: Receptors and modeled property boundary

1	"Restricted Area" is an area to which public entry is effectively precluded. Effective barriers include continuous fencing, continuous walls, or other continuous barriers approved by the Department, such as rugged physical terrain with a steep grade that would require special equipment to traverse. If a large property is completely enclosed by fencing, a restricted area within the property may be identified with signage only. Public roads cannot be part of a Restricted Area. A Restricted Area is required in order to exclude receptors from the facility property. If the facility does not have a Restricted Area, then receptors shall be placed within the property boundaries of the facility. Describe the fence or other physical barrier at the facility that defines the restricted area.						
	The facility has a continuous fenceline which defines the restricted area.						
2	Receptors must be placed along publicly accessible roads in the restricted area. Are there public roads passing through the restricted area?					Yes☐	No☒
3	Are restricted area boundary coordinates included in the modeling files?					Yes☒	No☐
4	Describe the receptor grids and their spacing. The table below may be used, adding rows as needed.						
	Grid Type	Shape	Spacing	Start distance from restricted area or center of facility	End distance from restricted area or center of facility	Comments	
	Very Fine	rectangle	100 m	Fenceline	1,000 m		
	Fine	rectangle	250 m	1,000 m	2,500 m		
	Medium	rectangle	500 m	2,500 m	5,000 m		
	Coarse	rectangle	1,000 m	5,000 m	10,000 m		
5	Describe receptor spacing along the fence line.						
	50 m spacing along the fenceline						
6	Describe the PSD Class I area receptors.						
	N/A						

16-J: Sensitive areas

	Are there schools or hospitals or other sensitive areas near the facility? If so describe below.	Yes☐	No☒

1	This information is optional (and purposely undefined) but may help determine issues related to public notice.		
3	The modeling review process may need to be accelerated if there is a public hearing. Are there likely to be public comments opposing the permit application?	Yes☐	No☒

16-K: Modeling Scenarios

1	Identify, define, and describe all modeling scenarios. Examples of modeling scenarios include using different production rates, times of day, times of year, simultaneous or alternate operation of old and new equipment during transition periods, etc. Alternative operating scenarios should correspond to all parts of the Universal Application and should be fully described in Section 15 of the Universal Application (UA3).		
	There are no modeling scenarios as described above. The maximum NOx lb/hr rate was utilized for all sources.		
2	Which scenario produces the highest concentrations? Why?		
	N/A		
3	Were emission factor sets used to limit emission rates or hours of operation? (This question pertains to the "SEASON", "MONTH", "HROFDY" and related factor sets, not to the factors used for calculating the maximum emission rate.)	Yes☐	No☒
4	If so, describe factors for each group of sources. List the sources in each group before the factor table for that group. (Modify or duplicate table as necessary. It's ok to put the table below section 16-K if it makes formatting easier.) Sources:		

5

Hour of Day	Factor	Hour of Day	Factor								
1		13									
2		14									
3		15									
4		16									
5		17									
6		18									
7		19									
8		20									
9		21									
10		22									
11		23									
12		24									

	If hourly, variable emission rates were used that were not described above, describe them below.		
6	Were different emission rates used for short-term and annual modeling? If so describe below.	Yes☐	No☒

16-L: NO_2 Modeling

1	Which types of NO_2 modeling were used? Check all that apply.	
	☒	ARM2
	☐	100% NO_X to NO_2 conversion
	☐	PVMRM
	☐	OLM
	☐	Other:
2	Describe the NO_2 modeling.	
	Modeling was performed using ARM2 in AERMOD.	
3	Were default NO_2/NO_X ratios (0.5 minimum, 0.9 maximum or equilibrium) used? If not describe and justify the ratios used below.	Yes☒ No☐
4	Describe the design value used for each averaging period modeled.	
	1-hour: High eighth high Annual: Choose an item.	

16-M: Particulate Matter Modeling

1	Select the pollutants for which plume depletion modeling was used.	
	☐	PM2.5
	☐	PM10
	☒	None
2	Describe the particle size distributions used. Include the source of information.	
3	Does the facility emit at least 40 tons per year of NO_X or at least 40 tons per year of SO_2? Sources that emit at least 40 tons per year of NO_X or at least 40 tons per year of SO_2 are considered to emit significant amounts of precursors and must account for secondary formation of PM2.5.	Yes☒ No☐
4	Was secondary PM modeled for PM2.5? A modeling waiver was requested for PM2.5	Yes☐ No☒
5	If MERPs were used to account for secondary PM2.5 fill out the information below. If another method was used describe below.	

NO_X (ton/yr)	SO_2 (ton/yr)	$[PM2.5]_{annual}$	$[PM2.5]_{24\text{-}hour}$
120.41	2.47	0.038	0.117

16-N: Setback Distances

1	Portable sources or sources that need flexibility in their site configuration requires that setback distances be determined between the emission sources and the restricted area boundary (e.g. fence line) for both the initial location and future locations. Describe the setback distances for the initial location.
	N/A
2	Describe the requested, modeled, setback distances for future locations, if this permit is for a portable stationary source. Include a haul road in the relocation modeling.
	N/A

16-O: PSD Increment and Source IDs

1	The unit numbers in the Tables 2-A, 2-B, 2-C, 2-E, 2-F, and 2-I should match the ones in the modeling files. Do these match? If not, provide a cross-reference table between unit numbers if they do not match below.	Yes☒	No☐

Unit Number in UA-2	Unit Number in Modeling Files

2	The emission rates in the Tables 2-E and 2-F should match the ones in the modeling files. Do these match? If not, explain why below.	Yes☒	No☐
3	Have the minor NSR exempt sources or Title V Insignificant Activities" (Table 2-B) sources been modeled?	Yes☐	No☒

4 Which units consume increment for which pollutants? All units consume increment

Unit ID	NO_2	SO_2	PM10	PM2.5

5	PSD increment description for sources. (for unusual cases, i.e., baseline unit expanded emissions after baseline date).	All units consume increment

6	Are all the actual installation dates included in Table 2A of the application form, as required? This is necessary to verify the accuracy of PSD increment modeling. If not please explain how increment consumption status is determined for the missing installation dates below.	Yes☒	No☐

16-P: Flare Modeling

1 For each flare or flaring scenario, complete the following

	Flare ID (and scenario)	Average Molecular Weight	Gross Heat Release (cal/s)	Effective Flare Diameter (m)
	F-01	48.7 g/mol	224,976 cal/sec	0.387 m

16-Q: Volume and Related Sources

1	Were the dimensions of volume sources different from standard dimensions in the Air Quality Bureau (AQB) Modeling Guidelines? If not please explain how increment consumption status is determined for the missing installation dates below.	Yes☐	No☒
2	Describe the determination of sigma-Y and sigma-Z for fugitive sources.		
3	Describe how the volume sources are related to unit numbers. Or say they are the same.		
4	Describe any open pits.		
5	Describe emission units included in each open pit.		

16-R: Background Concentrations

1	Were NMED provided background concentrations used? Identify the background station used below. If non-NMED provided background concentrations were used describe the data that was used.	Yes☒	No☐
	CO: Choose an item.		
	NO_2: Hobbs-Jefferson (350250008)		
	PM2.5: Choose an item.		
	PM10: Choose an item.		
	SO_2: Choose an item.		
	Other:		
	Comments:		
2	Were background concentrations refined to monthly or hourly values? If so describe below.	Yes☐	No☒

16-S: Meteorological Data

1	Was NMED provided meteorological data used? If so select the station used. Artesia Municipal Airport (KATS) met data set, collected in 2011 to 2015	Yes☒	No☐

2	If NMED provided meteorological data was not used describe the data set(s) used below. Discuss how missing data were handled, how stability class was determined, and how the data were processed.		

16-T: Terrain

1	Was complex terrain used in the modeling? If not, describe why below.	Yes☒	No☐
2	What was the source of the terrain data?		
	National Map for 1/3 arc-second data.		

16-U: Modeling Files

Describe the modeling files:
The modeling files are described below. The facility NO_2 1-hour H8H and NO_2 24-hour H2H were determined in the respective SIL models.
Per Section 2.6.4.1 of the NMED Air Dispersion Modeling Guidelines, demonstration of compliance with the NO_2 1-hour standard is automatically a demonstration of compliance with the 24-hour NMAAQS. Since we are modeling the 1-hour NOx standard, 24-hr modeling is not included.

	File name (or folder and file name)	Pollutant(s)	Purpose (ROI/SIA, cumulative, culpability analysis, other)
1	Brininstool.BST	NOx	ROI/SIA
	BrininstoolNAAQS.BST	NOx	Cumulative analysis
	BrininstoolNAAQSA.BST	NOx	Cumulative analysis Annual

16-V: PSD New or Major Modification Applications

1	A new PSD major source or a major modification to an existing PSD major source requires additional analysis. Was preconstruction monitoring done (see 20.2.74.306 NMAC and PSD Preapplication Guidance on the AQB website)?	Yes☐	No☐

2	If not, did AQB approve an exemption from preconstruction monitoring?	Yes☐	No☐
3	Describe how preconstruction monitoring has been addressed or attach the approved preconstruction monitoring or monitoring exemption.		
4	Describe the additional impacts analysis required at 20.2.74.304 NMAC.		
5	If required, have ozone and secondary PM2.5 ambient impacts analyses been completed? If so describe below.	Yes☐	No☐

16-W: Modeling Results

1	If ambient standards are exceeded because of surrounding sources, a culpability analysis is required for the source to show that the contribution from this source is less than the significance levels for the specific pollutant. Was culpability analysis performed? If so describe below.	Yes☐	No☒
2	Identify the maximum concentrations from the modeling analysis. Rows may be modified, added and removed from the table below as necessary.		

Pollutant, Time Period and Standard	Modeled Facility Concentration (µg/m3)	Modeled Concentration with Surrounding Sources (µg/m3)	Secondary PM (µg/m3)	Background Concentration (µg/m3)	Cumulative Concentration (µg/m3)	Value of Standard (µg/m3)	Percent of Standard	Location		
								UTM E (m)	UTM N (m)	Elevation (ft)
NOx 1-hr	82.26	N/A	N/A	64.2	146.46	188.03	77%	637300.00	3574800.00	1113.40
NOx 24-hr	82.26	N/A	N/A	64.2	146.46	188.03	77%	637300.00	3574800.00	1113.40
NOx Annual	7.21	N/A	N/A	8.1	15.31	99.66	15%	637370.11	3574760.14	1114.02

16-X: Summary/conclusions

1	A statement that modeling requirements have been satisfied and that the permit can be issued.
	Modeling requirements have been satisfied and the permit can be issued.

Section 17

Compliance Test History

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

To show compliance with existing NSR permits conditions, you must submit a compliance test history. The table below provides an example.

To save paper and to standardize the application format, delete this sentence and the samples in the Compliance Test History Table, and begin your submittal for this attachment on this page.

Compliance Test History Table (Modify this sample table to suit your facility)

Unit No.	Test Description	Test Date
C-01	Tested in accordance with EPA test methods for NOx and CO as required by NSR permit 6317-M1R3 and/or GCP-OG Permit No. 6317-M2..	2/13/19, 5/13/19, 7/29/19, 2/23/21
C-02	Tested in accordance with EPA test methods for NOx and CO as required by NSR permit 6317-M1R3 and/or GCP-OG Permit No. 6317-M2..	2/12/19, 5/13/19, 7/29/19, 1/19/21
C-03	Tested in accordance with EPA test methods for NOx and CO as required by NSR permit 6317-M1R3 and/or GCP-OG Permit No. 6317-M2..	2/12/19, 5/14/19, 7/29/19, 12/3/20
C-04	Tested in accordance with EPA test methods for NOx and CO as required by NSR permit 6317-M1R3 and/or GCP-OG Permit No. 6317-M2..	2/14/19, 5/14/19, 7/29/19, 5/27/21
C-05	Tested in accordance with EPA test methods for NOx and CO as required by NSR permit 6317-M1R3 and/or GCP-OG Permit No. 6317-M2..	2/12/19, 5/16/19, 7/16/19, 7/23/21
C-06	Tested in accordance with EPA test methods for NOx and CO as required by NSR permit 6317-M1R3 and/or GCP-OG Permit No. 6317-M2..	2/11/19, 5/14/19, 7/29/19, 8/23/21
C-07	Tested in accordance with EPA test methods for NOx and CO as required by NSR permit 6317-M1R3 and/or GCP-OG Permit No. 6317-M2..	2/13/19, 5/15/19, 9/17/19, 5/27/21
C-08	Tested in accordance with EPA test methods for NOx and CO as required by NSR permit 6317-M1R3 and/or GCP-OG Permit No. 6317-M2..	2/21/19, 5/14/19, 7/29/19, 5/24/21
C-09	Tested in accordance with EPA test methods for NOx and CO as required by GCP-OG Permit No. 6317-M2.	2/21/19, 5/14/19, 7/29/19, 1/19/21
C-10	Tested in accordance with EPA test methods for NOx and CO as required by GCP-OG Permit No. 6317-M2.	2/21/19, 5/14/19, 7/29/19, 1/19/21

Section 20

Other Relevant Information

Other relevant information. Use this attachment to clarify any part in the application that you think needs explaining. Reference the section, table, column, and/or field. Include any additional text, tables, calculations or clarifying information.

Additionally, the applicant may propose specific permit language for AQB consideration. In the case of a revision to an existing permit, the applicant should provide the old language and the new language in track changes format to highlight the proposed changes. If proposing language for a new facility or language for a new unit, submit the proposed operating condition(s), along with the associated monitoring, recordkeeping, and reporting conditions. In either case, please limit the proposed language to the affected portion of the permit.

No other relevant information is included in this section.

Section 22: Certification

Company Name: Targa Midstream Services LLC

I, Jimmy E Oxford, hereby certify that the information and data submitted in this application are true and as accurate as possible, to the best of my knowledge and professional expertise and experience.

Signed this 18th day of November, 2021 upon my oath or affirmation, before a notary of the State of Texas.

*Signature

11/18/21
Date

Jimmy E Oxford
Printed Name

VP operations
Title

Scribed and sworn before me on this 18th day of November, 2021.

My authorization as a notary of the State of Texas expires on the 26th day of October, 2025.

Mary Theresa Endsley
Notary's Signature

11-18-2021
Date

Mary Theresa Endsley
Notary's Printed Name

*For Title V applications, the signature must be of the Responsible Official as defined in 20.2.70.7.AE NMAC.

MARY THERESA ENDSLEY
Notary ID #125462685
My Commission Expires
October 26, 2025

Form-Section 22 last revised: 3/7/2016

Saved Date: 11/10/2021